TEAC®

SERVICE MANUAL

AG-5700
AG-2700

FM/AM Stereo Receiver

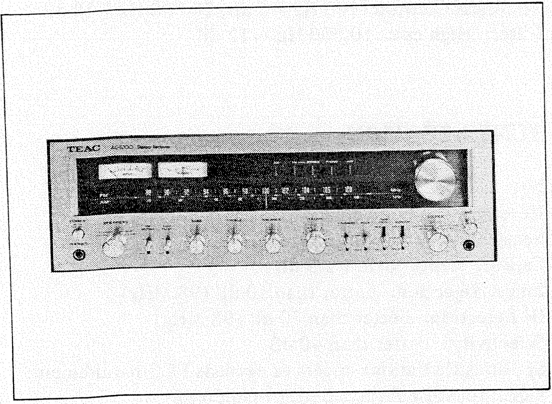
TEAC CORPORATION

51032020

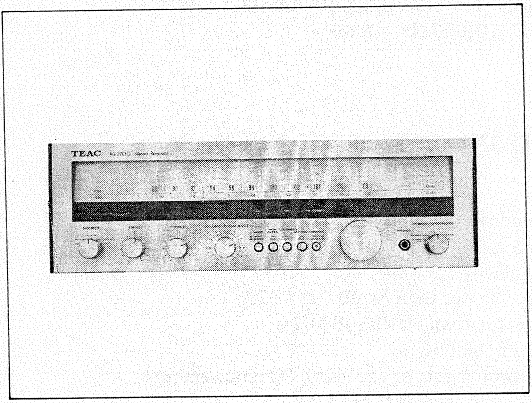
1. GENERAL DISCRIPTION

AG-5700 and AG-2700 AM/FM Stereo Receiver
This Service Manual is written for both the TEAC AG-5700 and the AG-2700 AM/FM Stereo Receivers. Both models are similar in many ways.
The AG-5700 offers greater power per channel and more system versatility and design elegance.
The AG-2700 is a more economical model with all the features and controls required of a high quality AM/FM Stereo Receiver.
The adjustment procedures and maintenance information for each model are clearly divided in this manual. All information applies to both models unless specifically noted as applying to either model alone.

AG-5700



AG-2700



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SPECIFICATIONS

AG-5700

AMPLIFIER SECTION:

Rated Power: 50W + 50W at 8 ohms both channels operated THD 0.5%
Harmonic Distortion: 0.08% at rated power
Output Load Impedance: 4 – 16 ohms
Damping Factor: 30 at 8 ohms
Frequency Response: 20 – 40,000 Hz ± 1 dB
Inputs: Phono: 2.5 mV, Mic: 3.0 mV, Aux: 150 mV,
Tape deck play: 1/2: 150 mV/ 50 k ohms
Phono Maximum Input level: 150 mV
Outputs: Record out: 1/2: 150 mV, Record out (DIN): 30 mV
Signal to Noise Ratio: Phono input: better than 70 dB,
Tuner, Aux, Tape: better than 85 dB
Channel Separation: 50 dB
Tone Control: 100 Hz ± 8 dB, 10,000 Hz ± 8 dB
Loudness Control: 100 Hz + 6 dB, 10,000 Hz + 4 dB
Filter: High cut: 10,000 Hz – 6 dB

TUNER SECTION:

FM
Receiving Frequency: 88 – 108 MHz
Sensitivity: 10.3 dBf (1.8 μV)
Capture Ratio: below 1.3 dB
Image Rejection: better than 80 dB (98 MHz)
IF Rejection: better than 80 dB (98 MHz)
Selectivity: better than 60 dB
Spurious Radiation: meets or exceeds FCC requirements
Signal to Noise Ratio: better than 75 dB
Harmonic Distortion: below 0.2%
FM Stereo Separation: better than 40 dB (1,000 Hz)
Antenna Input Impedance: 300 ohms balanced, 75 ohms unbalanced

AM
Receiving Frequency: 535 – 1,605 kHz
Sensitivity: 200 μV/m (IHF)
Image Rejection: better than 40 dB
IF Rejection: better than 40 dB
Selectivity: better than 25 dB

GENERAL:

Power Requirements: 100/117/220/240V AC, 50/60 Hz
(General Export model)
220V AC, 50 Hz (Europe model)
240V AC, 50 Hz (Australia, U.K. model)
Power Consumption: 40W at no signal, 310W at MAX. power
Dimensions: 466 (W) x 297 (D) mm x 150 (H)
[18-1/4" (W) x 11-3/4" (D) x 5-7/8" (H)]
Weight: 12.5 kg [27.5 lbs] net

AG-2700

AMPLIFIER SECTION:

Rated Power: 20W + 20W at 8 ohms both channels operated THD 0.5%
Harmonic Distortion: 0.2% at rated power
Output Load Impedance: 4 – 16 ohms
Damping Factor: 30 at 8 ohms
Frequency Response: 20 – 20,000 Hz ± 1 dB
Inputs: **Phono:** 3.5 mV. AUX: 180 mV.
Tape deck play: 180 mV/50 k ohms
Outputs: **Record out:** 180 mV. Record out (DIN): 30 mV
Signal to Noise Ratio: **Phono input:** better than 70 dB.
AUX input: better than 70 dB
Hum and Noise: 1 mV (Volume minimum)
Channel Separation: **Phono:** 50 dB. AUX: 50 dB
Tone Control: 100 Hz ± 10 dB, 10,000 Hz ± 10 dB
Loudness Control: 100 Hz + 6 dB, 10,000 Hz + 10 dB
Filter: **High cut:** 10,000 Hz – 12 dB

TUNER SECTION:

FM
Receiving Frequency: 88 – 108 MHz
Sensitivity: 13.2 dBf (2.5 μV)
Capture Ratio: below 2.5 dB
Image Rejection: better than 50 dB (98 MHz)
IF Rejection: better than 70 dB (98 MHz)
Selectivity: better than 40 dB
Spurious Radiation: meets or exceeds FCC requirements
Signal to Noise Ratio: better than 60 dB
Harmonic Distortion: below 0.5%
FM Stereo Separation: better than 30 dB (1,000 Hz)
Antenna Input Impedance: 300 ohms balanced, 75 ohms unbalanced

AM
Receiving Frequency: 535 – 1,605 kHz
Sensitivity: 200 μV/m (IHF)
Image Rejection: better than 40 dB
IF Rejection: better than 40 dB
Selectivity: better than 25 dB

GENERAL:

Power Requirements: 100/117/220/240V AC, 50/60 Hz
(General Export model)
220V AC, 50 Hz (Europe model)
240V AC, 50 Hz (Australia, U.K. model)

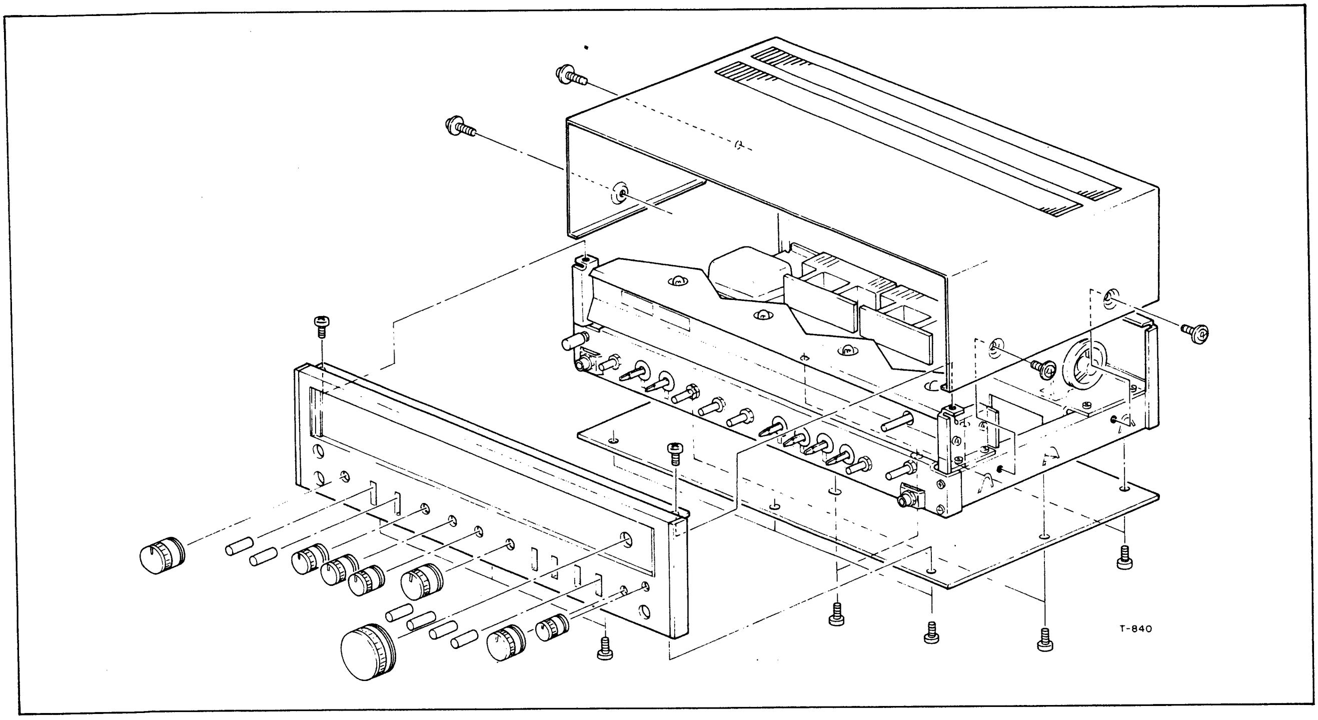
Power Consumption: 20W at no signal, 140W at MAX. power
Dimensions: 450 (W) x 315 (D) mm x 153 (H)
[17-3/4" (W) x 12-3/8" (D) x 6" (H)]
Weight: 9 kg [19.8 lbs] net

NOTE: Improvements may result in features or specifications change without notice.

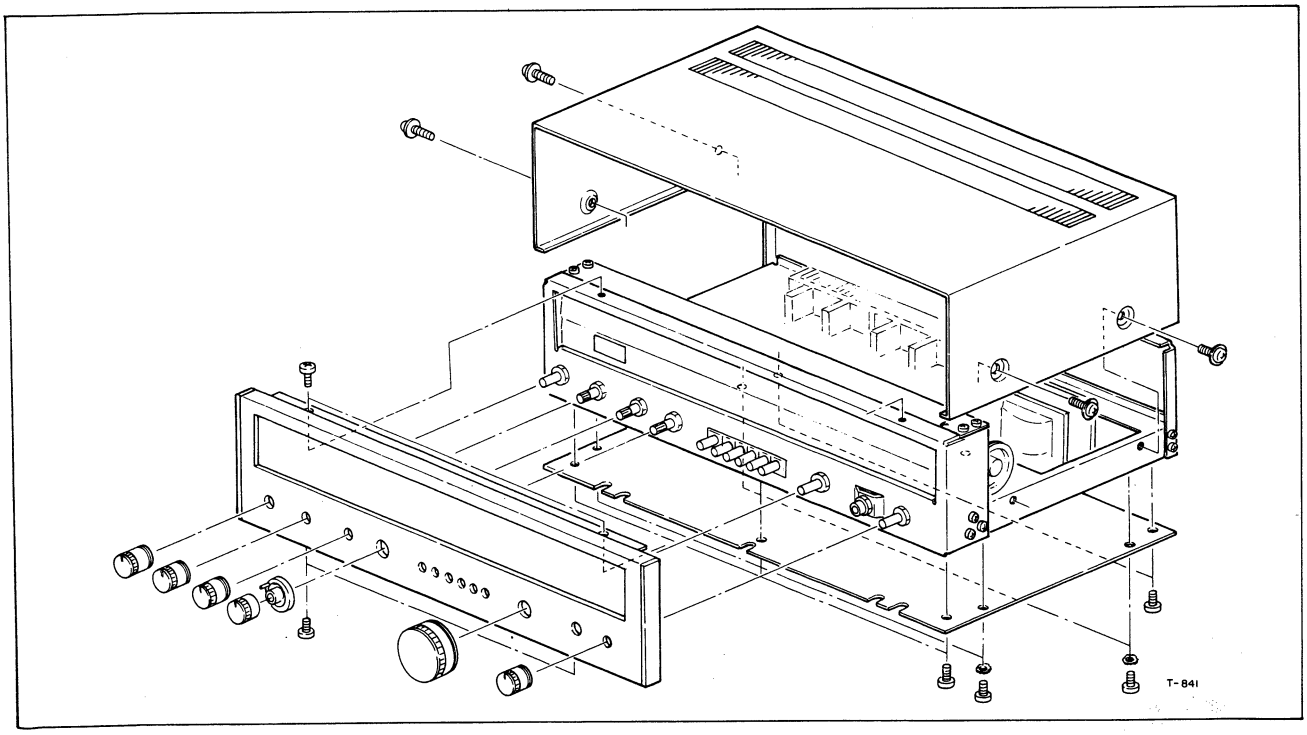
2. DISASSEMBLY

FRONT PANEL, BONNET AND BOTTOM PLATE

AG-5700



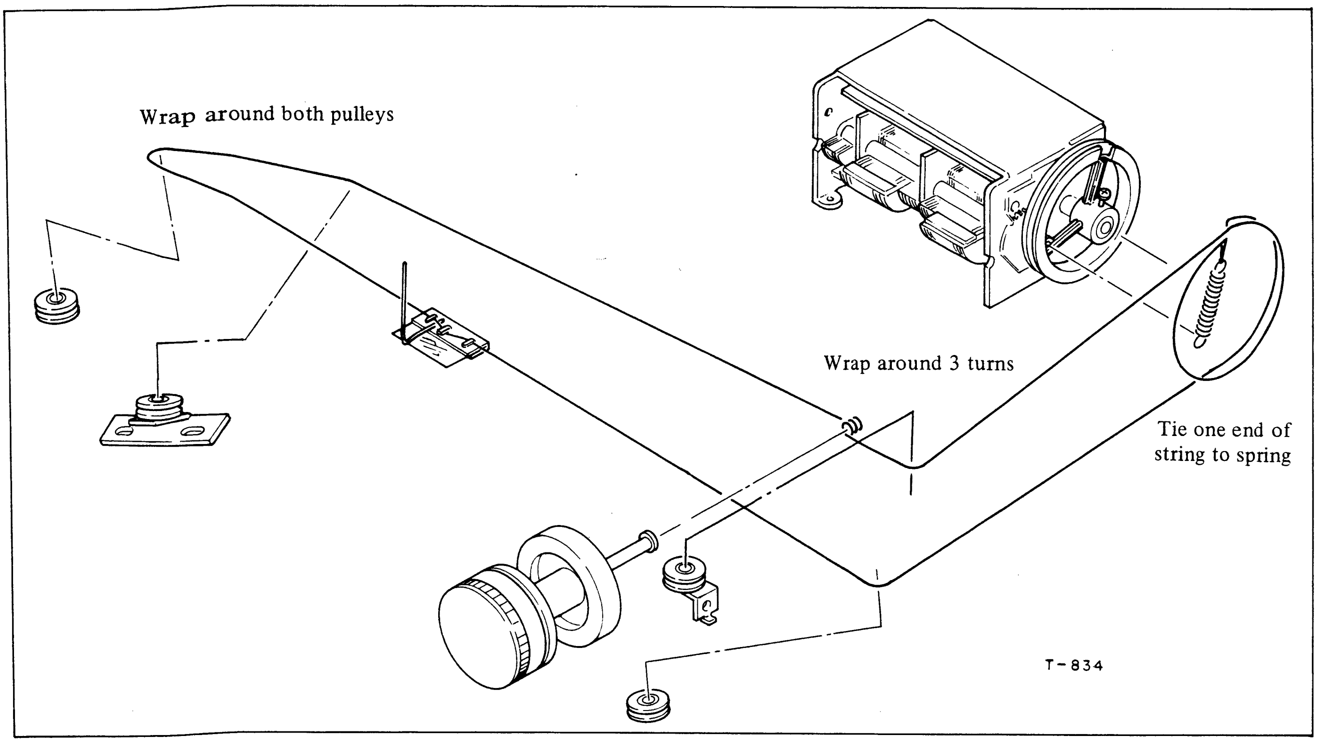
AG-2700



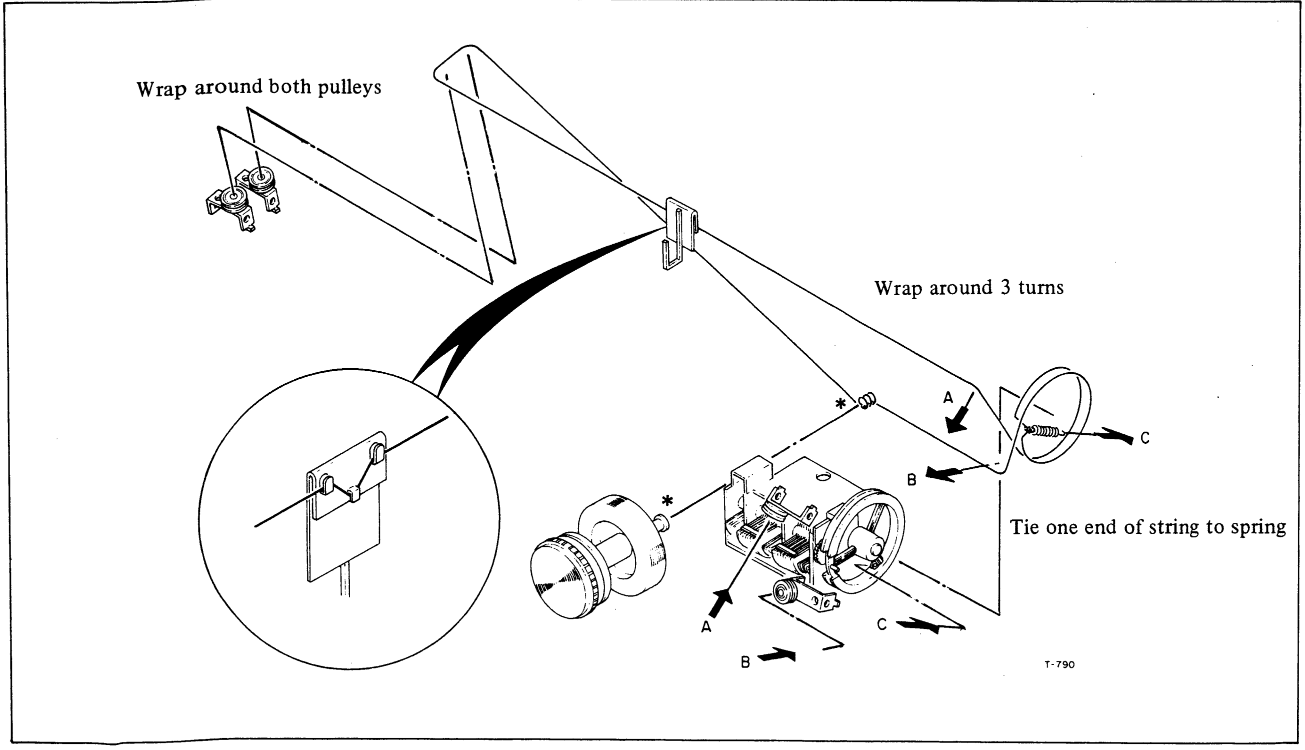
DIAL CORD STRING PATH

NOTE: Prior to removing old dial cord for replacement, carefully inspect winding path and connection method to insure that new dial cord string can be properly installed.

AG-5700


Wrap around both pulleys
Wrap around 3 turns
Tie one end of string to spring
T-834

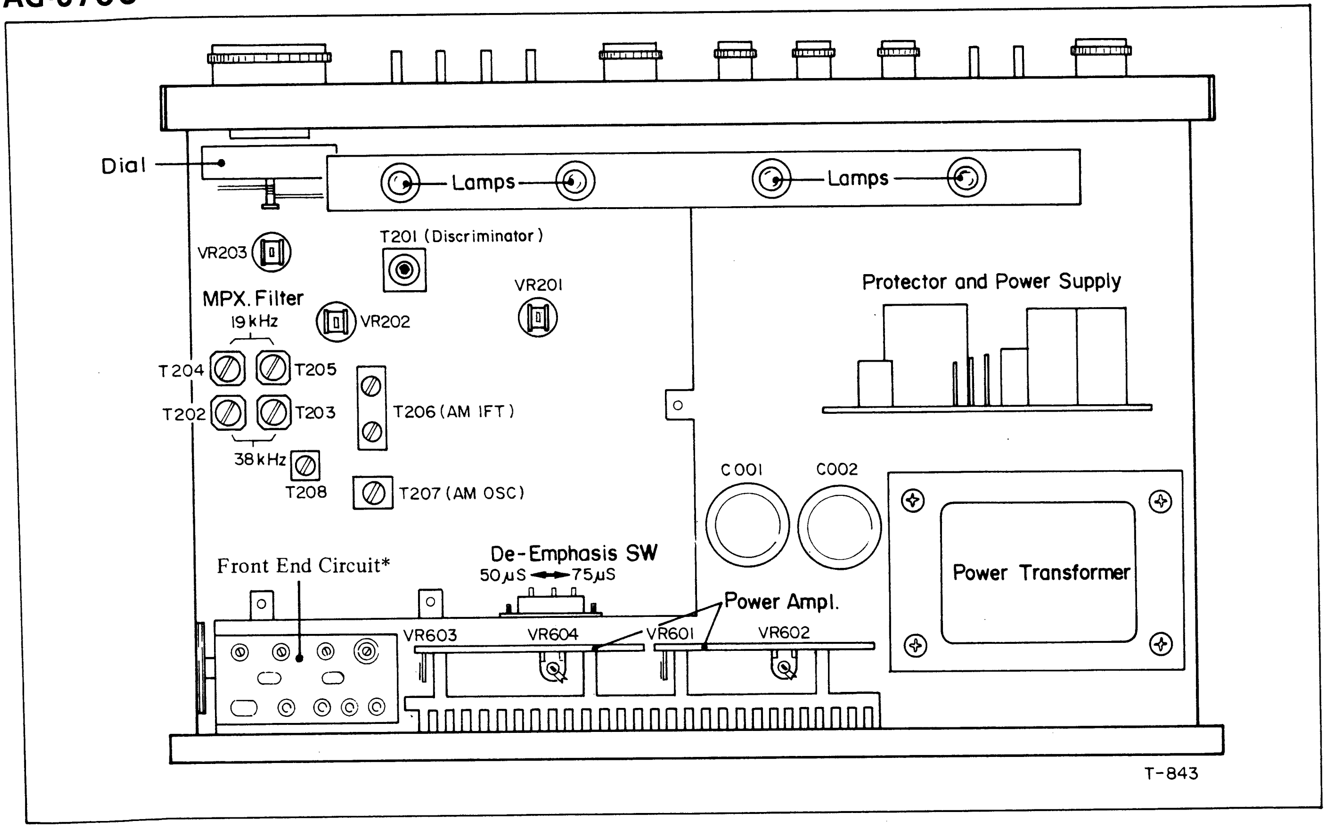
AG-2700


Wrap around both pulleys
Wrap around 3 turns
Tie one end of string to spring
A
B
C
*
A
B
C
*
T-790

PARTS LOCATION AND CHECK POINTS

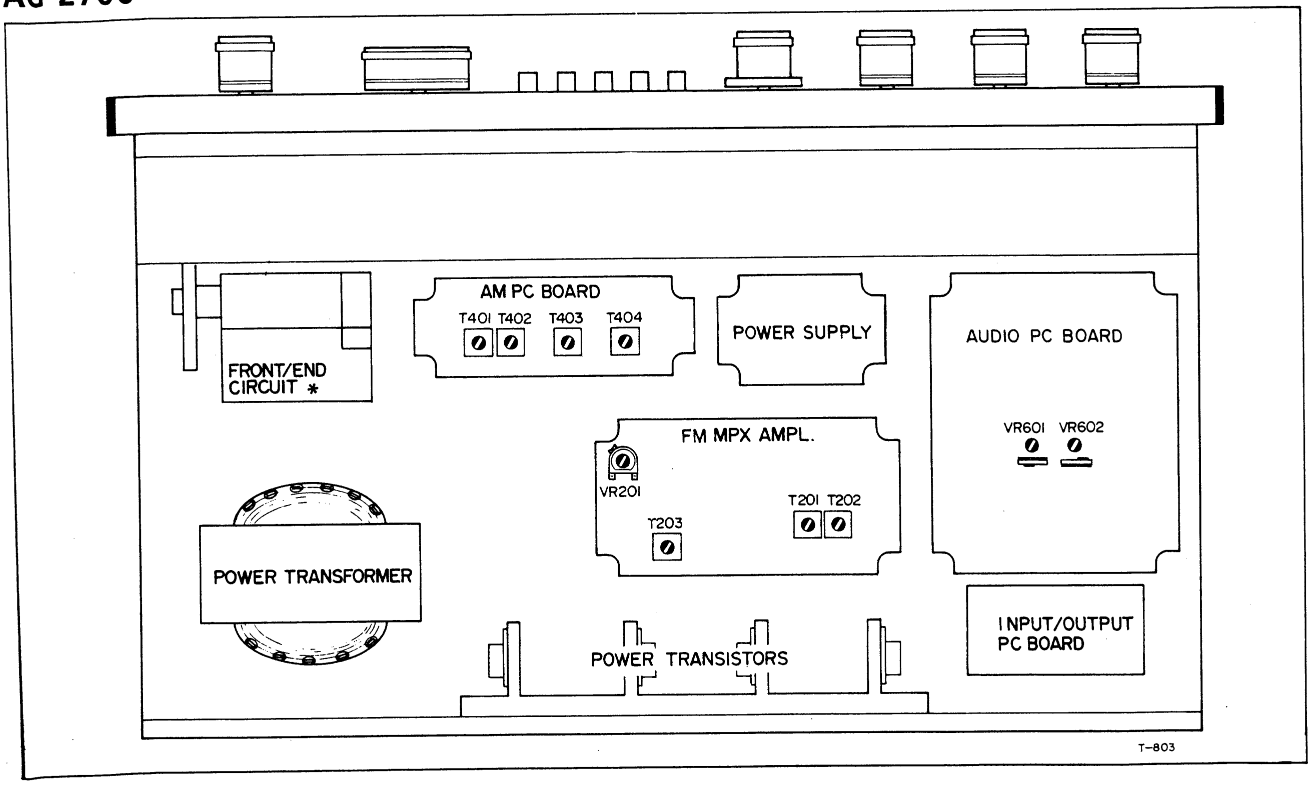
CHASSIS TOP VIEW

AG-5700


Dial
Lamps
Lamps
VR203
T201 (Discriminator)
VR201
Protector and Power Supply
MPX. Filter
19 kHz
VR202
T204
T205
T202
T203
T206 (AM IFT)
38 kHz
T208
T207 (AM OSC)
C001
C002
Power Transformer
Front End Circuit*
De-Emphasis SW
50μS ◀▶ 75μS
Power Ampl.
VR603
VR604
VR601
VR602
T-843

NOTE: *marks Refer to page 12 and 13 for More detailed Adj. Location.

AG-2700


FRONT/END CIRCUIT *
AM PC BOARD
T401 T402 T403 T404
POWER SUPPLY
AUDIO PC BOARD
FM MPX AMPL.
VR201
T203
T201 T202
VR601 VR602
POWER TRANSFORMER
POWER TRANSISTORS
INPUT/OUTPUT PC BOARD
T-803

3. ALIGNMENT

AG-5700

GENERAL NOTICE

Overall adjustment and alignment procedures are outlined below.
The AG series Receivers utilize the latest circuitry and most modern materials and techniques.
Since the AG series Receivers are similar in design to those of other leading manufacturers, general alignment and servicing procedures may be followed. However, if you do not possess the required test equipment or should you fail to understand the circuit operation, alignment should not be attempted.

REQUIRED EQUIPMENT

- Sweep Generator
- AM/FM Signal Generator
- Audio Generator
- Oscilloscope
- AC V. T. V. M.
- Distortion Meter
- Stereo Signal Generator
- Plastic Alignment Tools
- 8 ohms / 20W Dummy load Resistor

FM ALIGNMENT PROCEDURE

STEP	ALIGN ITEM	TEST SIGNAL	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1	O.S.C	Set FM SG freq. to 90 MHz, 60 dB Output, Internal 75 kHz (devi.) with 400 Hz	To antenna 300 ohm terminal (FM) See **Fig. 4**	Oscilloscope and distortion Meter output load	90 MHz	L.O.	Adjust Test signal 90 MHz and Dial setting to match
		Set FM SG freq. to 106 MHz			106 MHz	TCO	Adjust Test signal and Dial setting to match
Repeat above signal 90 MHz and 106 MHz							
2	High-frequency Ampl. circuit	90 MHz, 10 dB ~ 60 dB output, internal 75 kHz, Deviation 100% (mod.)	To antenna 300 ohm terminal (FM)	Oscilloscope and distortion meter output load	90 MHz	LR-1, LR-2 and LA	Minimum
		Set FM SG freq. to 106 MHz			106 MHz	TCR-1, TCR-2 and TCA	
Repeat above signal 90 MHz and 106 MHz							
3	FM IF ADJ.	106 MHz, Internal 75 kHz, Deviation 100% (mod.)	To antenna 300 ohm terminal (FM)	Oscilloscope and distortion Meter output Load	106 MHz	IF	Minimum
4	Discriminator					T201 (Upper side)	Minimum
5	Meter Tuning					T201 (Lower side)	Adjust to center Tuning meter See **Fig. 1**
6	Input Meter	Set the output level for 66dB				VR-201	Adjust maximum on INPUT meter See **Fig. 2**
7	19 kHz (WHT) Filter adj.	106 Mhz, 60 dB output, external 75 kHz, Deviation 100% (mod.)	To antenna 300 ohm terminal (FM) See **Fig. 4**	Oscilloscope and V.T.V.M.	106 MHz	T202 and T203	Minimum
8	38 kHz (BLK) Filter Adj.					T204 and T205	Minimum
9	V.C.O. Level setting	106 MHz, external 67.5 kHz (mod.) pilot for 10%				VR-202	Adjust until lamp lights
10	Separation					VR-203	Adjust for maximum indication on R and L meter

AM ALIGNMENT PROCEDURE

STEP	ALIGN ITEM	TEST SIGNAL	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1	OSC.	Set AM SG freq. to 600 kHz, 400 Hz, 40% (mod.)	Loop antenna to Bar Ant. Approx. 60 cm apart See **Fig. 10**	Connect Oscilloscope and V.T.V.M.	600 kHz	T207	Adjust Test signal 600 kHz and Dial setting 600 kHz to match
		Set AM SG freq. to 1400 kHz			1400 kHz	AM-1 (OSC)	Adjust Test signal 1400 kHz and Dial setting 1400 kHz to match
Repeat above signal 600 kHz and 1400 kHz							
2	RF Ampl. adj.	600 kHz, 400 Hz, 40% (mod.)	Loop antenna to Bar Ant. Approx. 60 cm apart. See **Fig. 10**	Connect Oscilloscope and V.T.V.M.	600 kHz	Bar antenna	Maximum
		1400 kHz			1400 kHz	AM-2 (RF)	
3	AM IF adj.	455 kHz			455 kHz	T206 and 208	Maximum

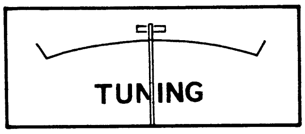


Fig. 1

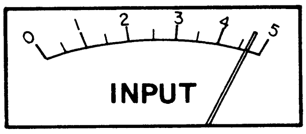

0
2
3
4
5
INPUT

Fig. 2 T-833

POWER AMPLIFIER ADJUSTMENT

1. Connect a VOM (tester) to following check point. (Fig.3).
2. Adjust VR-603 (L) and VR-605 (R) for 0.02V.
3. Adjust VR-602 (L) and VR-604 (R) for 0V.

NOTE: Do not apply input signals.
See Adjuster VR's page 7.

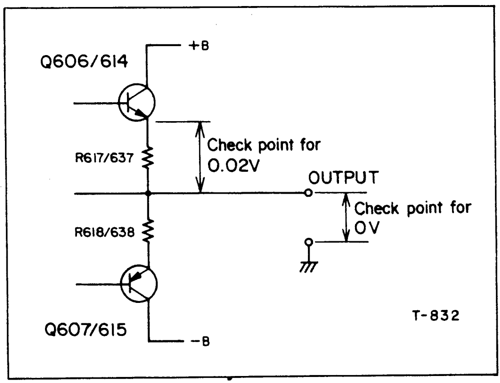

Q606/614
+B
R617/637
Check point for 0.02V
OUTPUT
Check point for 0V
R618/638
Q607/615
-B
T-832

Fig. 3

Set-up for FM Align. Check

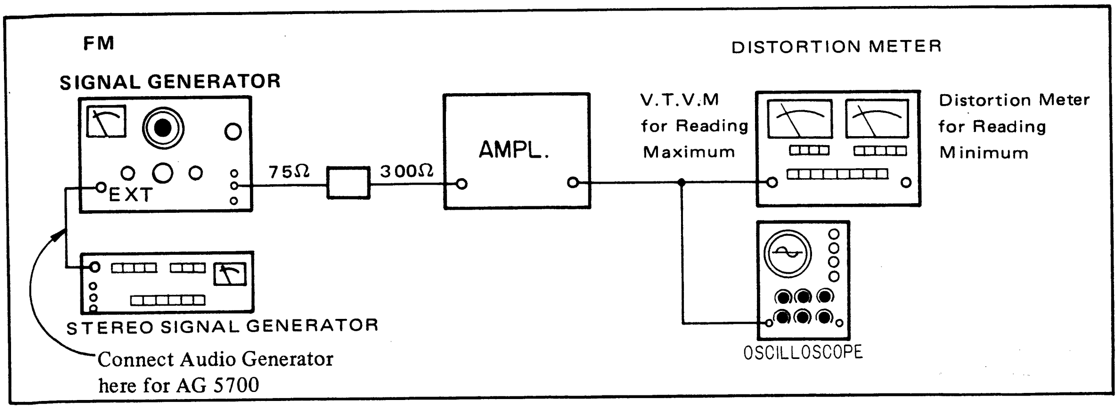

FM
SIGNAL GENERATOR
EXT
75Ω
300Ω
AMPL.
DISTORTION METER
V.T.V.M for Reading Maximum
Distortion Meter for Reading Minimum
OSCILLOSCOPE
STEREO SIGNAL GENERATOR
Connect Audio Generator here for AG 5700

Fig. 4 T-798

FM ALIGNMENT PROCEDURE

STEP	ALIGN ITEM	TEST SIGNAL	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST/CHECK FOR
1.	IF Transformer	10.7 MHz ±200 kHz	Sweep signal is sent to T.P 6 via the 10pF ceramic Capacitor See **Fig. 5**	Oscilloscope probe is connected to T.P 1 via the 10pF ceramic Capacitor	—	Fixed	I.F.T. Wave form See **Fig. 6**
2.	Discriminator			Oscilloscope is connected to check point T.P 2. See schematic	—	FM Discriminator is transformer T201, T202 top and bottom sides	S Curve See **Fig. 7**
3.	O S C.	90 MHz, 400 Hz 75 kHz. Deviation 100% (mod.)	To Antenna 300 ohm terminal (FM)	Oscilloscope and Distortion Meter at output load	90 MHz	No adjustment. Check only (Fixed)	
4.	O S C.	90 MHz, 400 Hz 75 kHz. Deviation 100% (mod.) Output level 60 dB			106 MHz	O S C. trimmer TCO (on Front End circuit)	Minimum
Repeat above step 3 and 4							
5.	High-frequency Ampl. circuit	90 MHz, 400 Hz 100% Modulation	To antenna 300 ohm terminal (FM)	Oscilloscope and Distortion Meter at output load	90 MHz	No adjustment. Check only (Fixed)	
6.	High-frequency Ampl. circuit	106 MHz 400 Hz 100% Modulation			106 MHz	Trimmer TCI and 3 (on Front End circuit)	Minimum
Repeat above 5 and 6							
7.	FM IF Adj.	106 MHz 400 Hz 100% Modulation	To Antenna 300 ohm terminal (FM)	same as above	106 MHz	IFT (on Front End)	Minimum
8.	Meter Tuning					Tuning coil T203	Maximum on output Meter **Fig. 9**

V.C.O. ADJUSTMENT PROCEDURE

SELECTOR SETTING .... FM STEREO or AUTO

PROCEDURE............. The voltage of voltage controlled oscillator should be readjusted. Adjust the semi fixed variable resistor VR201 (5k ohm) while observing the STEREO lamp through the dial panel, so that the STEREO lamp lights up when the AG-2700 receives the stereo signal.

NOTE: Rotate this variable resistor to left or right of center position. See Fig. 8 below.

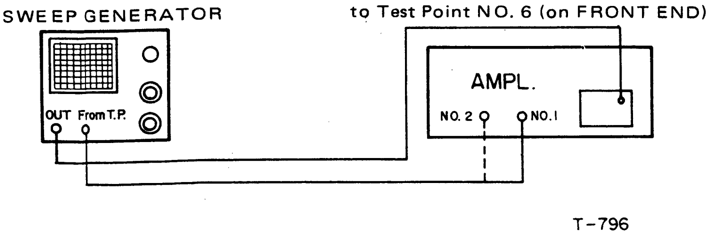


Fig. 5

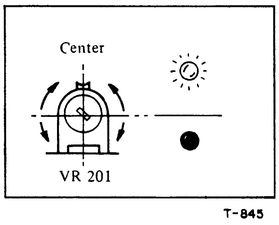


Fig. 8

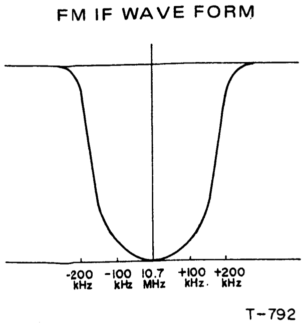


Fig. 6

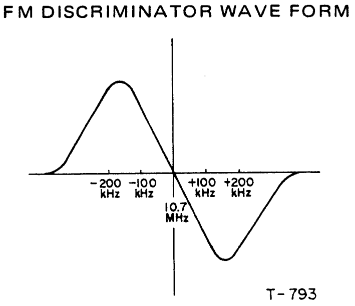


Fig. 7

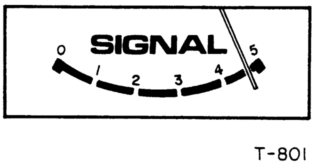


Fig. 9

AM ALIGNMENT PROCEDURE

STEP	ALIGN ITEM	TEST SIGNAL	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST/CHECK FOR
1.	IF Transformer	455 kHz Signal Generator	Loop antenna to Bar antenna approx. 60 cm apart See Fig. 10	Oscilloscope and V.T.V.M	—	Top and bottom sides from the 1st I.F.T. T402 (YEL), T403 (WHT) and T404 (GRY)	Maximum
2.	O S C.	540 kHz, 400 Hz Modulation		Oscilloscope and distortion meter at output load	540 kHz	O S C. Trimmer T401 (RED)	Minimum
3.	O S C.	1600 kHz, 400 Hz 30% modulation			1600 kHz	O S C. Trimmer TC 4 (on Front End circuit)	Minimum
Repeat above 2 and 3							
4.	RF Ampl.	1400 kHz, 400 Hz 30% Modulation	Loop antenna to Bar antenna approx. 60 cm apart See Fig. 10	Oscilloscope and distortion meter at output load	1400 kHz	RF Trimmer TC 2 (on Front End circuit)	Minimum
5.	Antenna circuit				1400 kHz	No adjustment. Check only (Fixed)	

Repear above 4 and 5

POWER AMPLIFIER ADJUSTMENT PROCEDURE

1. Set the SOURCE Selector Switch to Aux and POWER/SPEAKER Switch to A+B position.
2. Connect an Audio Generator with output of 1 kHz at 0.5 V to the AUX pin on the rear panel.
3. Connect an 8 ohm/20W load resistor, AC VTVM and oscilloscope to the speaker cable terminals. See Fig. 11.
4. Set the Main VOLUME control to the full clockwise position, and set the BALANCE control at mid position. Adjust MainVOLUME control for 12 V output to AC VTVM.
5. Adjust VR601 (L ch) and VR602 (R ch) on Audio P.C. Board to achieve vertical symmetry of the clipped waveform. See Fig. 12.
6. Set Main VOLUME control to a position where the clipping just disappears.

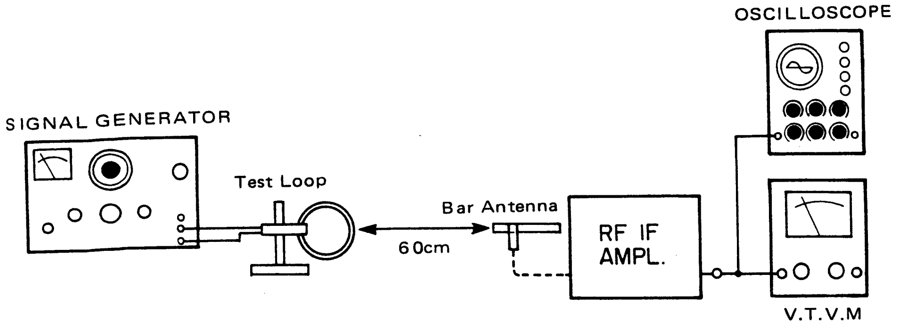
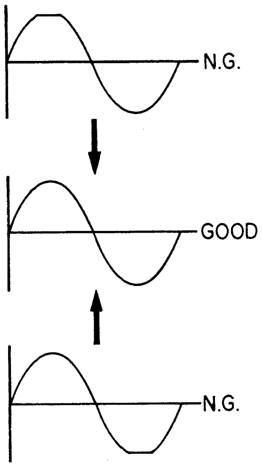


Fig. 10



T-795

Fig. 12

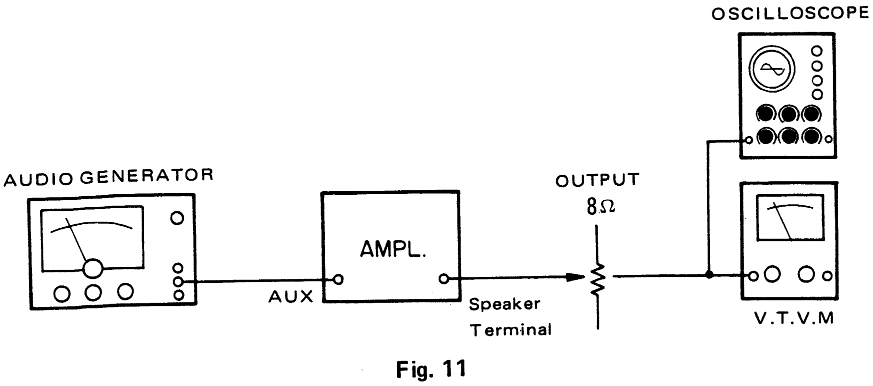
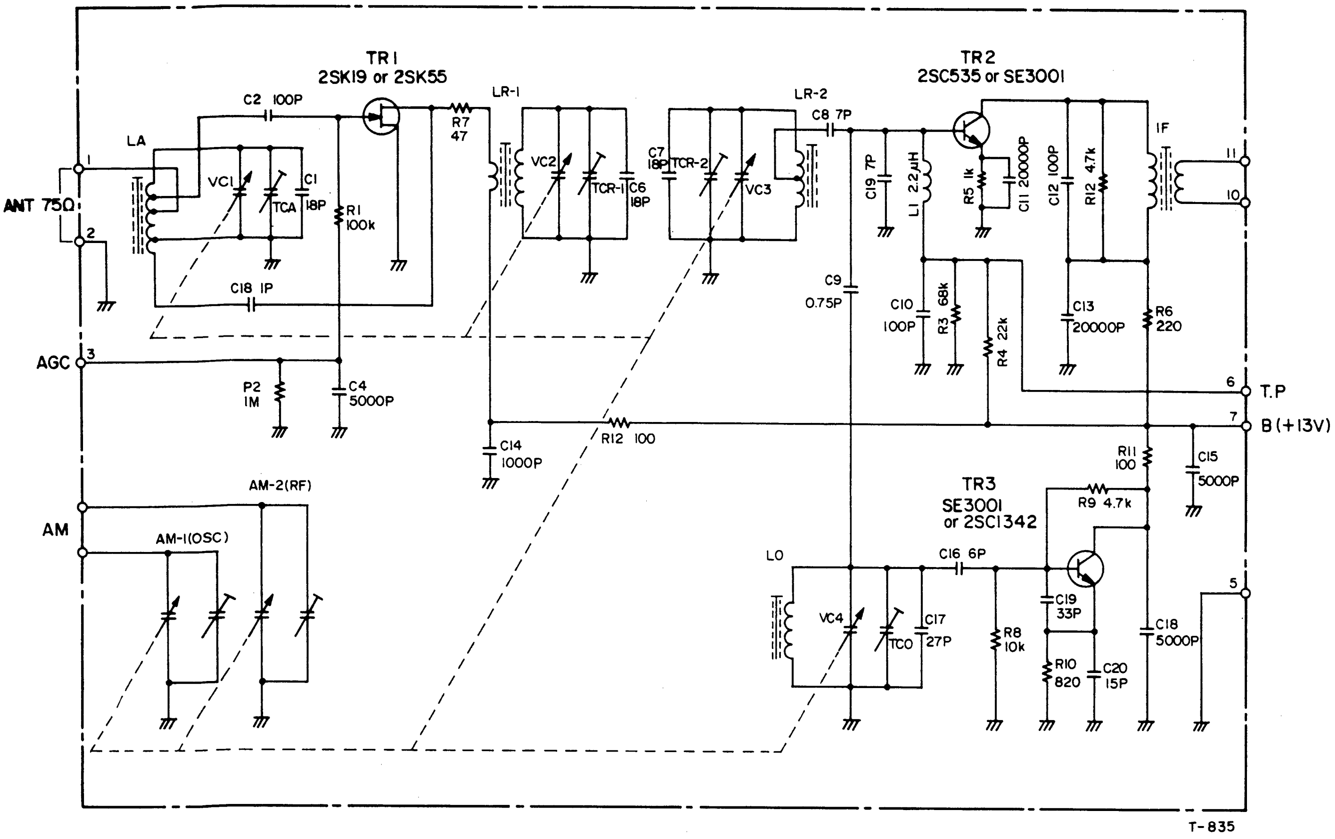
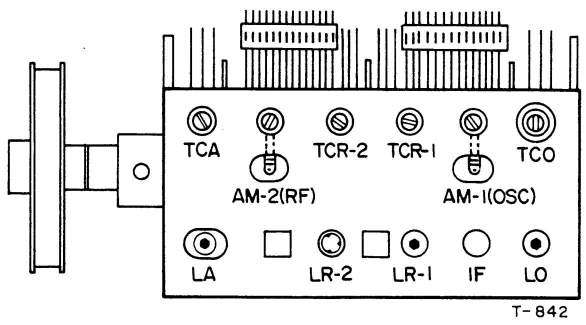


Fig. 11

FRONT END CIRCUIT AND ADJ. LOCATION

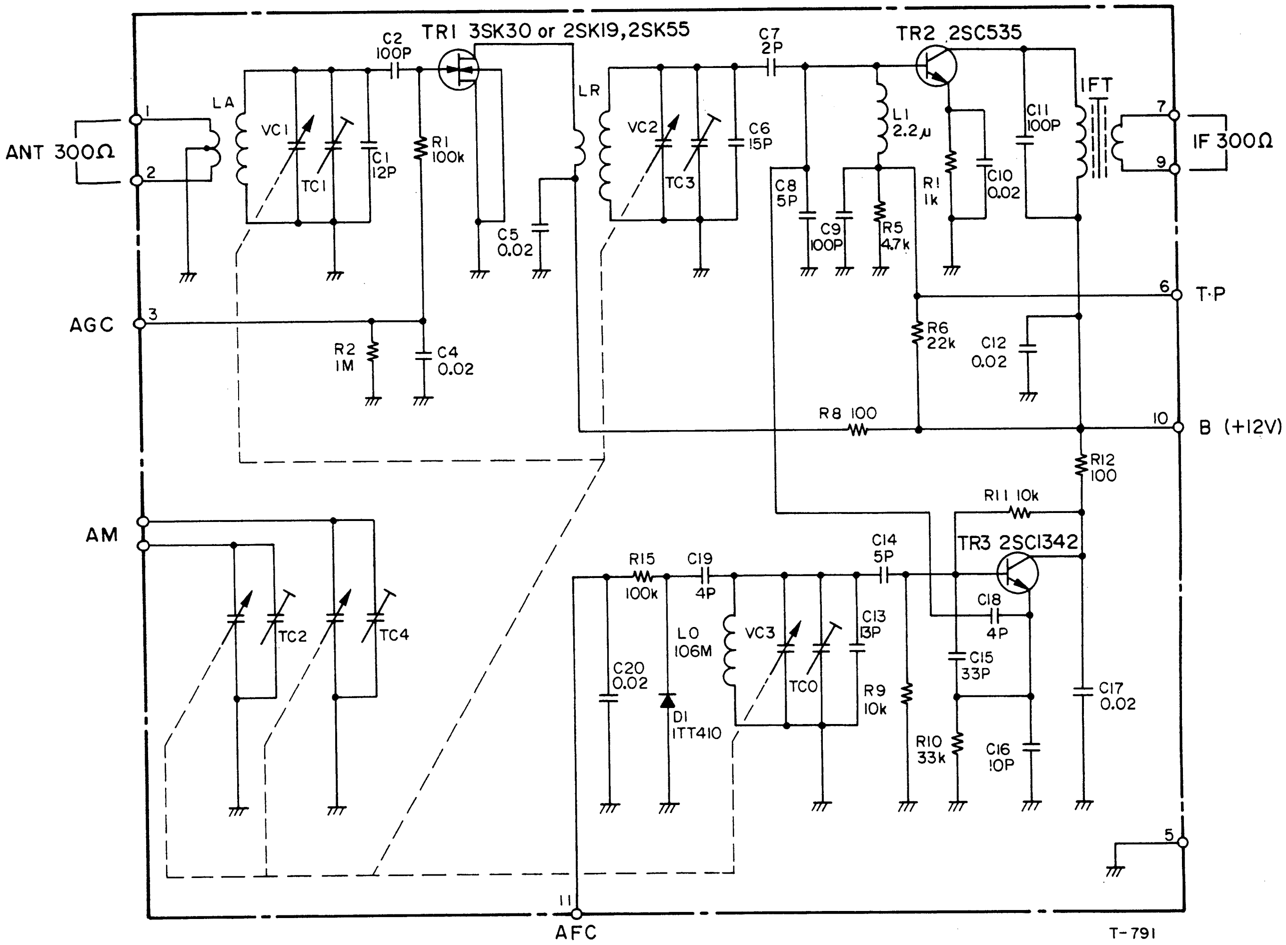
AG-5700

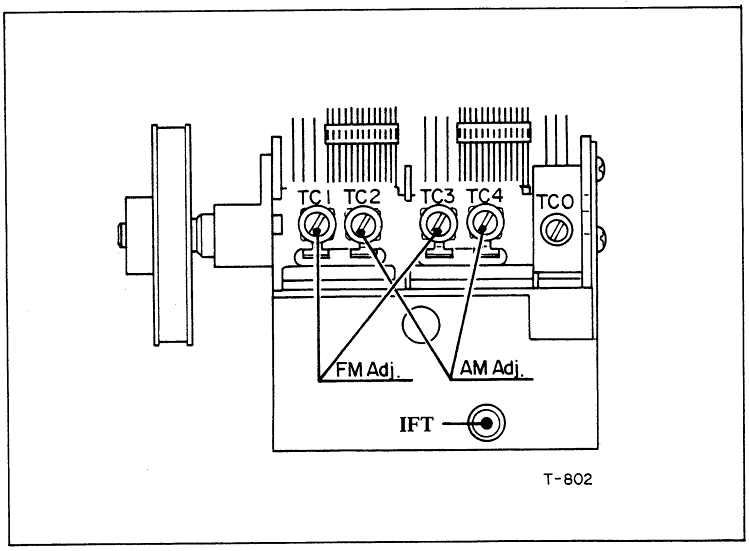

TR1
2SK19 or 2SK55
TR2
2SC535 or SE3001
TR3
SE3001
or 2SC1342
ANT 75Ω
AGC
AM
T.P
B(+13V)
LA
LR-1
LR-2
IF
LO
AM-2(RF)
AM-1(OSC)
VC1
VC2
VC3
VC4
TCA
TCR-1
TCR-2
TCO
C1 18P
C2 100P
C4 5000P
C6 18P
C7 18P
C8 7P
C9 0.75P
C10 100P
C11 20000P
C12 100P
C13 20000P
C14 1000P
C15 5000P
C16 6P
C17 27P
C18 1P
C18 5000P
C19 7P
C19 33P
C20 15P
L1 2.2μH
R1 100k
P2 1M
R3 68k
R4 22k
R5 1k
R6 220
R7 47
R8 10k
R9 4.7k
R10 820
R11 100
R12 100
R12 4.7k
1
2
3
5
6
7
10
11
T-835


TCA
TCR-2
TCR-1
TCO
AM-2(RF)
AM-1(OSC)
LA
LR-2
LR-1
IF
LO
T-842

FRONT END CIRCUIT AND ADJ. LOCATION

AG-2700


ANT 300Ω
1
2
LA
VC1
TC1
C1 12P
C2 100P
TR1 3SK30 or 2SK19,2SK55
R1 100k
C5 0.02
AGC
3
R2 1M
C4 0.02
LR
VC2
TC3
C6 15P
C7 2P
TR2 2SC535
L1 2.2μ
C8 5P
C9 100P
R5 4.7k
R! 1k
C10 0.02
C11 100P
IFT
7
9
IF 300Ω
6
T·P
R6 22k
C12 0.02
R8 100
10
B (+12V)
R12 100
R11 10k
TR3 2SC1342
AM
TC2
TC4
R15 100k
C19 4P
C14 5P
C18 4P
C20 0.02
L0 106M
D1 ITT410
VC3
TC0
C13 13P
R9 10k
R10 33k
C15 33P
C16 10P
C17 0.02
5
11
AFC
T-791

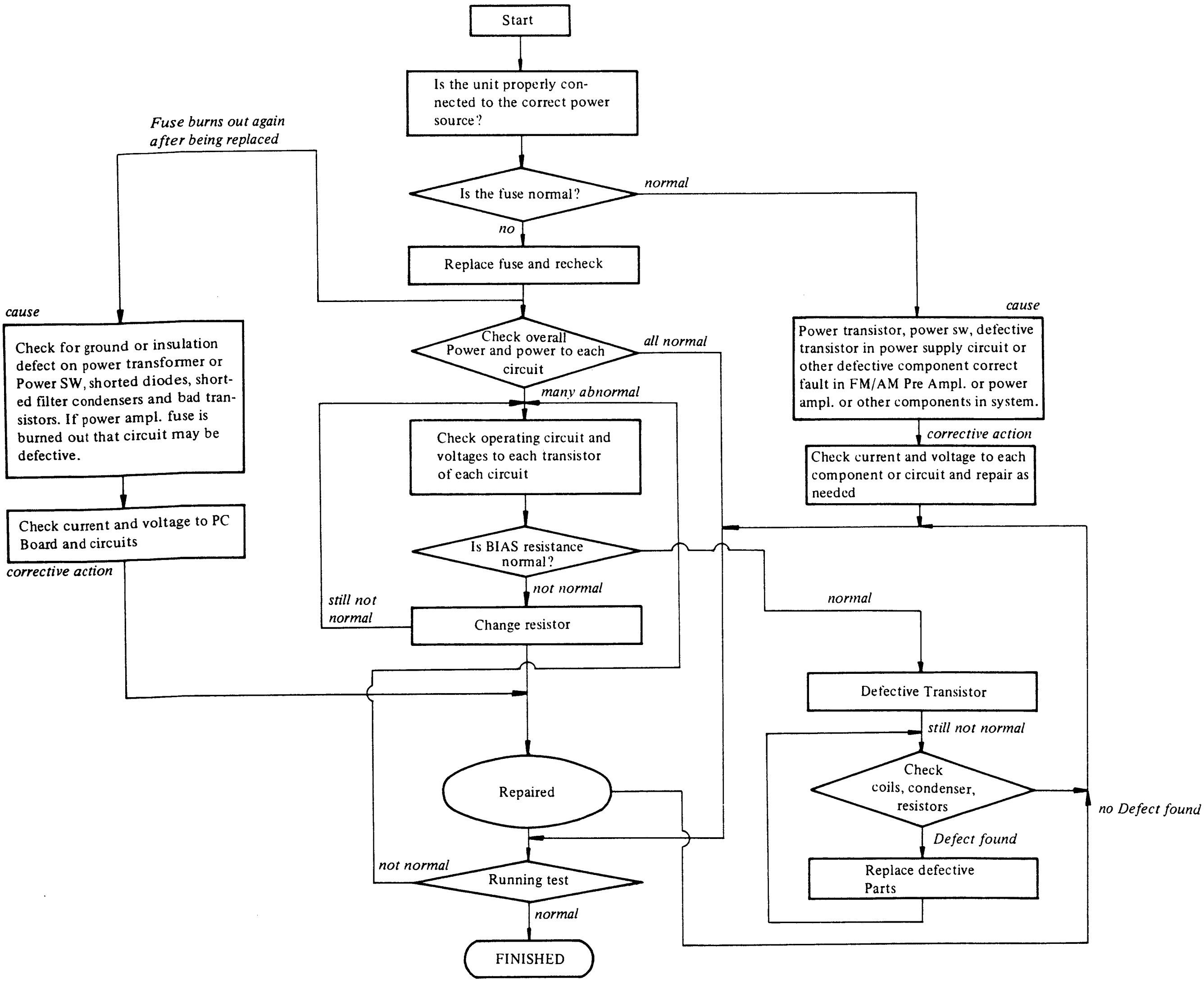

TC1
TC2
TC3
TC4
TCO
FM Adj.
AM Adj.
IFT
T-802

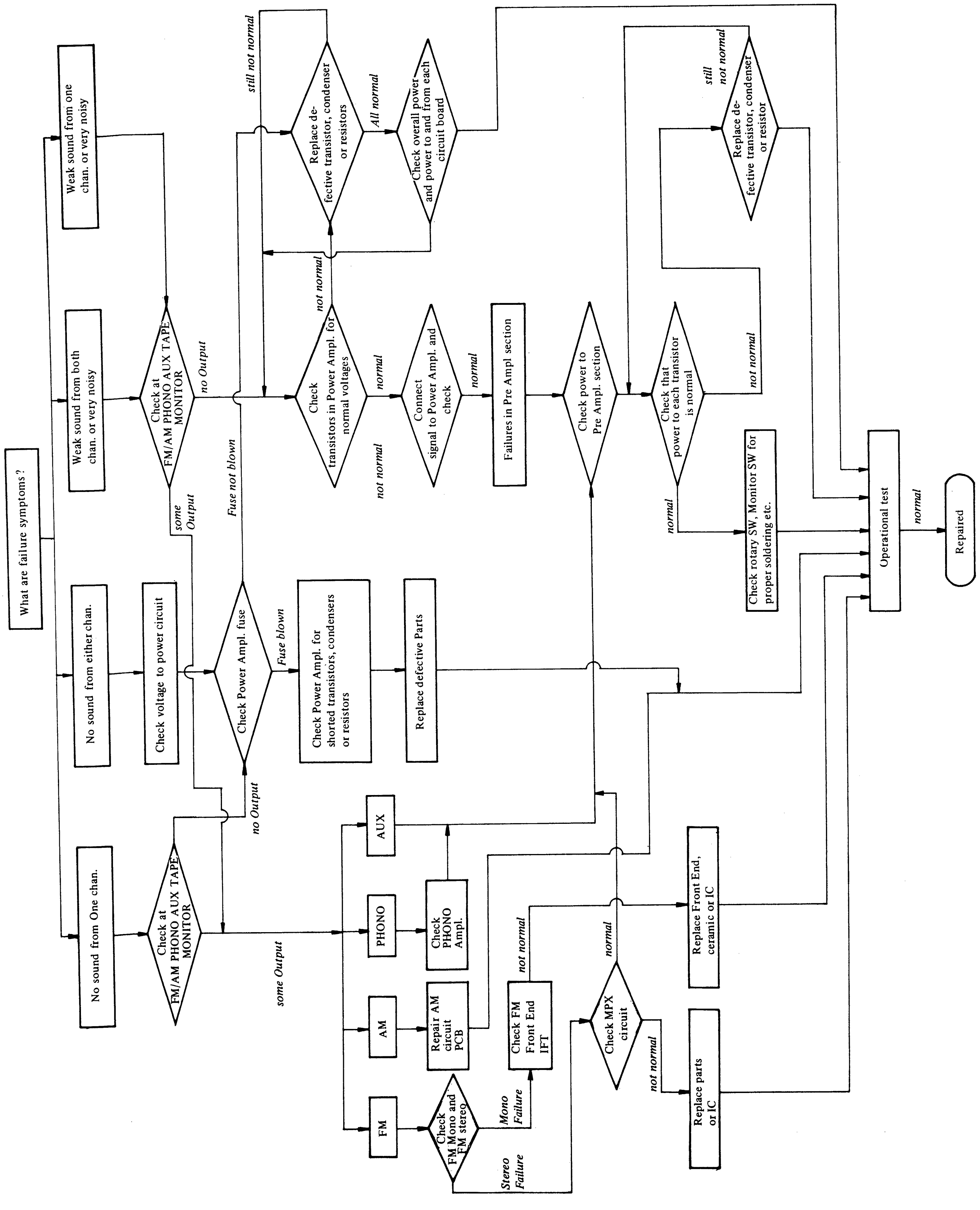
4. BASIC TROUBLE-SHOOTING -1

NOTE: If the Receiver is operating satisfactorily and a problem still exists in your stereo system, some of these common causes of trouble may be checked.

1. Incorrect or loose connections or connections not making good contact. Check all connections including those to speakers, record player, tape deck and antenna. Also check that power is properly connected to all components.
2. Incorrect operation. Be sure that you are operating all the components as explained in the manufacturer's instructions. If in doubt, re-read the Owner's Manuals.
3. Components improperly located. The components must be properly positioned to achieve the full stereo sound.
4. Components not working correctly. Check each individual component.

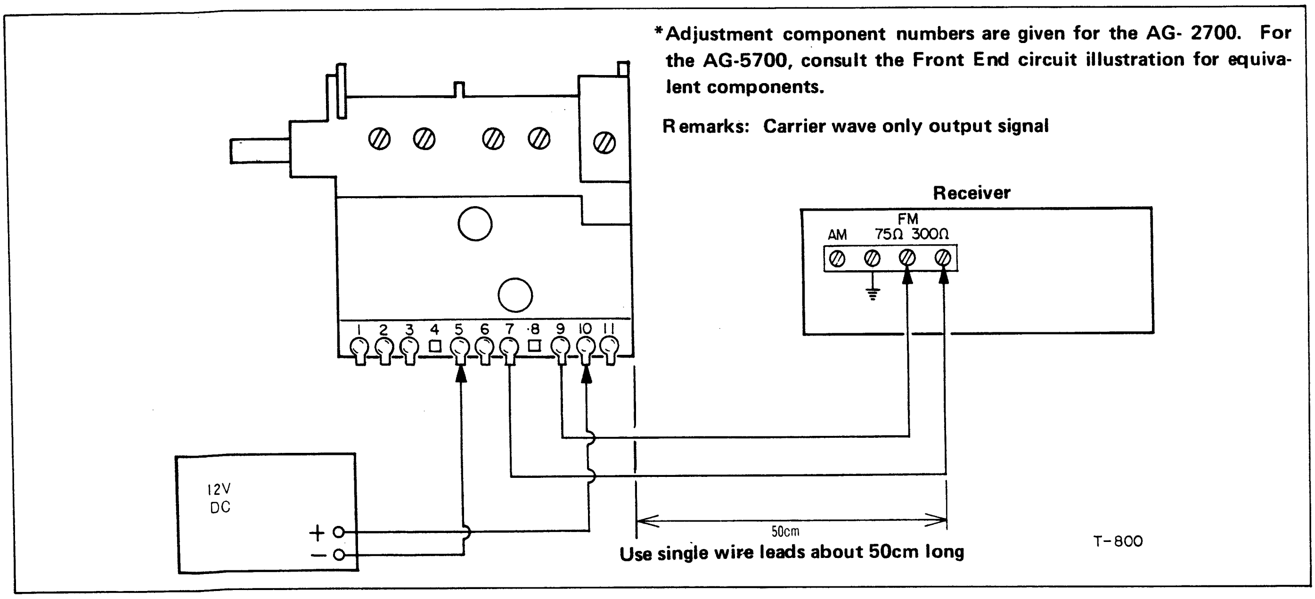
The following chart lists some of the possible causes of trouble. It may save you some unnecessary inconvenience if you can isolate and correct the problem using one of these suggestions.


Start
Is the unit properly connected to the correct power source?
Fuse burns out again after being replaced
Is the fuse normal?
normal
no
Replace fuse and recheck
cause
Check for ground or insulation defect on power transformer or Power SW, shorted diodes, shorted filter condensers and bad transistors. If power ampl. fuse is burned out that circuit may be defective.
Check current and voltage to PC Board and circuits
corrective action
Check overall Power and power to each circuit
all normal
many abnormal
Check operating circuit and voltages to each transistor of each circuit
Is BIAS resistance normal?
not normal
still not normal
Change resistor
cause
Power transistor, power sw, defective transistor in power supply circuit or other defective component correct fault in FM/AM Pre Ampl. or power ampl. or other components in system.
corrective action
Check current and voltage to each component or circuit and repair as needed
normal
Defective Transistor
still not normal
Check coils, condenser, resistors
no Defect found
Defect found
Replace defective Parts
Repaired
not normal
Running test
normal
FINISHED


What are failure symptoms?
No sound from One chan.
No sound from either chan.
Weak sound from both chan. or very noisy
Weak sound from one chan. or very noisy
Check at FM/AM PHONO AUX TAPE MONITOR
Check voltage to power circuit
Check at FM/AM PHONO AUX TAPE MONITOR
no Output
some Output
Check Power Ampl. fuse
Fuse not blown
Fuse blown
no Output
some Output
Check Power Ampl. for shorted transistors, condensers or resistors
Replace defective Parts
Check transistors in Power Ampl. for normal voltages
not normal
normal
not normal
Replace de-fective transistor, condenser or resistors
still not normal
All normal
Check overall power and power to and from each circuit board
Connect signal to Power Ampl. and check
normal
Failures in Pre Ampl section
Check power to Pre Ampl. section
Check that power to each transistor is normal
not normal
normal
Replace de-fective transistor, condenser or resistor
still not normal
Check rotary SW, Monitor SW for proper soldering etc.
Operational test
normal
Repaired
AUX
PHONO
AM
FM
Check PHONO Ampl.
Repair AM circuit PCB
Check FM Mono and FM stereo
Mono Failure
Stereo Failure
Check FM Front End IFT
not normal
Check MPX circuit
normal
not normal
Replace Front End, ceramic or IC
Replace parts or IC

TROUBLE-SHOOTING –2

NOTE: If you do not have a suitable Signal Generator, a substitute method can be used. Refer to following connection.



***Adjustment component numbers are given for the AG- 2700. For the AG-5700, consult the Front End circuit illustration for equivalent components.**

Remarks: Carrier wave only output signal

(1) Connect 12V DC to pins (5) and (10) of the Front End circuit of the AG-2700 or AG-5700.

(2) Connect the AG-2700 or AG-5700 ANT terminals to pins 7 and 9 of the Front End circuit using single wire leads about 50 cm long.

(3) Set the variable condenser on the Front End circuit to its maximum position.
Set oscillation frequency to 98 MHz.
Set oscillation voltage to about – 100 dB. (Only Carrier wave)

FM circuit operational defects

Failure symptoms
- No reception/poor reception (1)
- Low sensitvity (2)
- No stereo operation (3)

Location of failure symptoms
- Front End circuit (4)
- IFT circuit (5)
- MPX circuit (6)

For failure sypmtoms (1), (2)

Many failures in (1) and (2) are caused by circuits (4) and (5). Use the following method to check for problems in the Front End circuit or in the IFT circuit.

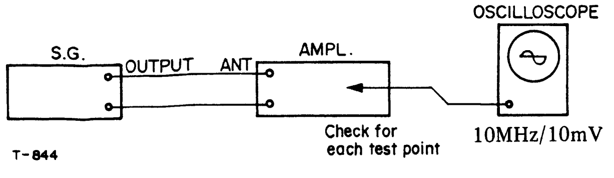


Fig. 13

A. Set the Signal Generator for 98 MHz output at – 100 dB.
B. Tune the AG-2700 or AG-5700 dial for 98 MHz.

For failure symptom (3)

For failures in (6), isolate and repair according to the following procedure. (See. above *mark).

A. Check for proper voltage to ICs in MPX circuit.
B. Adjust VR201 to set proper voltage to VCO. See VCO adjustment explanation.

NOTE: Most failure in the MPX circuit are caused by a failure of the HA1156. Therefore for most MPX circuit failures, change this IC.

Checking condition of Front End

1. Failures in the high frequency operation of Front End are difficult to isolate. The easiest method of isolation is to replace the whole assy.
2. If the Front End checks O.K., the failure determination should proceed as follows.
   A. Connect an input signal to the 300 ohm ANT terminals. (See Fig. 13.) Use an oscilloscope connected to terminal 7 of the Front End circuit and check for the normal voltage and waveform given on the Front End schematic diagram.
   B. If IFT coils TC-3 and TC-1 are adjusted and the waveform does not change, transistor TR-1 or TR-2 should be replaced.
   C. If there is no signal output, TR-3 in oscillator circuit is not operating and should be replaced.

IFT Check

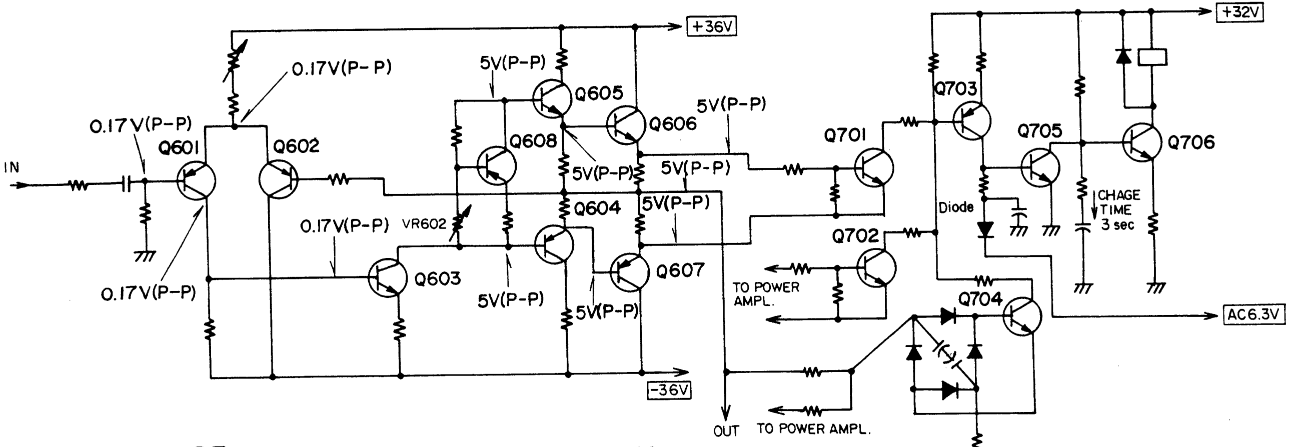
Check the voltage terminal 7. If the voltage is not correct, the failure is not in the Front End but in the IFT circuit. Check for the voltage and waveform shown in FM MPX CIRCUIT voltage chart.

NOTE: If ceramic condenser E201 or E202 is bad, replace both of them as a pair.

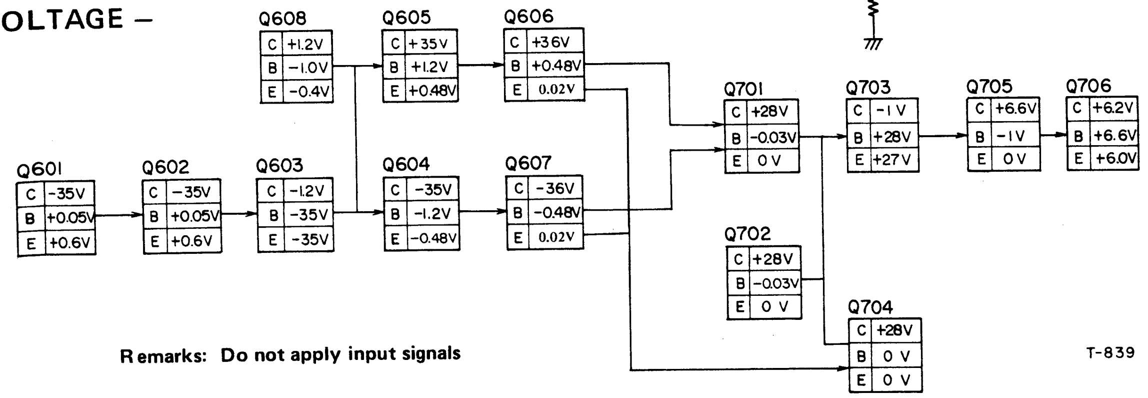
5. VOLTAGE AND WAVEFORM SIGNAL DIAGRAMS

AG-5700

MAIN AND PROTECTOR CIRCUIT


+36V
0.17V(P-P)
5V(P-P)
Q605
5V(P-P)
Q606
+32V
Q703
0.17V(P-P)
Q601
Q602
Q608
Q701
Q705
Q706
IN
5V(P-P)
5V(P-P)
Q604
5V(P-P)
Diode
CHAGE TIME 3 sec
0.17V(P-P)
VR602
Q702
0.17V(P-P)
Q603
Q607
5V(P-P)
5V(P-P)
TO POWER AMPL.
Q704
AC6.3V
-36V
OUT
TO POWER AMPL.

– DC VOLTAGE –



Q608

C	+1.2V
B	-1.0V
E	-0.4V

Q605

C	+35V
B	+1.2V
E	+0.48V

Q606

C	+36V
B	+0.48V
E	0.02V

Q701

C	+28V
B	-0.03V
E	0V

Q703

C	-1V
B	+28V
E	+27V

Q705

C	+6.6V
B	-1V
E	0V

Q706

C	+6.2V
B	+6.6V
E	+6.0V

Q601

C	-35V
B	+0.05V
E	+0.6V

Q602

C	-35V
B	+0.05V
E	+0.6V

Q603

C	-1.2V
B	-35V
E	-35V

Q604

C	-35V
B	-1.2V
E	-0.48V

Q607

C	-36V
B	-0.48V
E	0.02V

Q702

C	+28V
B	-0.03V
E	0V

Q704

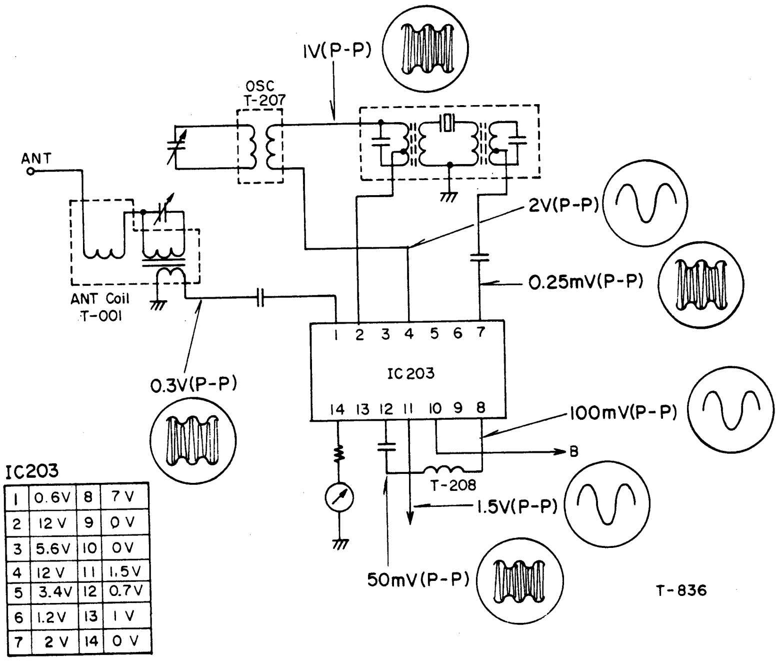
C	+28V
B	0V
E	0V

Remarks: Do not apply input signals

T-839

AM CIRCUIT

Remarks: Connect SG to the AM ANT. Set 100 dB output level.
Check waveform with oscilloscope.


IV(P-P)
OSC
T-207
ANT
2V(P-P)
0.25mV(P-P)
ANT Coil
T-001
1 2 3 4 5 6 7
IC 203
14 13 12 11 10 9 8
0.3V(P-P)
100mV(P-P)
B
T-208
1.5V(P-P)
50mV(P-P)

IC203

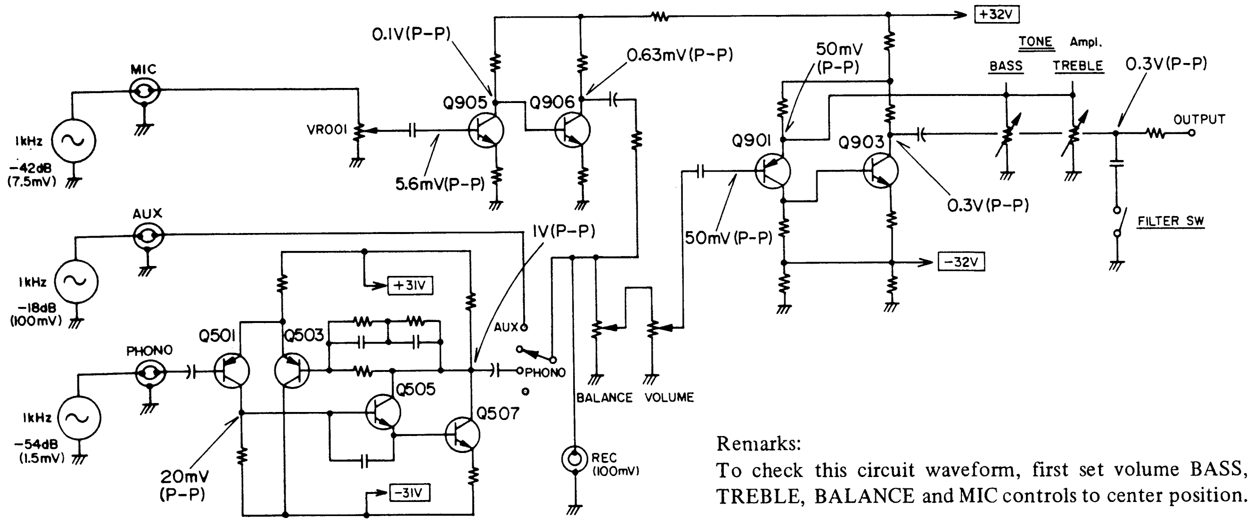
1	0.6V	8	7V
2	12V	9	0V
3	5.6V	10	0V
4	12V	11	1.5V
5	3.4V	12	0.7V
6	1.2V	13	1V
7	2V	14	0V

T-836

VOLTAGE AND WAVEFORM SIGNAL DIAGRAMS

AG-5700

PRE AMPL. CIRCUIT


+32V
0.1V(P-P)
0.63mV(P-P)
50mV (P-P)
TONE Ampl.
BASS
TREBLE
0.3V(P-P)
MIC
Q905
Q906
OUTPUT
1kHz
-42dB (7.5mV)
VR001
5.6mV(P-P)
Q901
Q903
0.3V(P-P)
FILTER SW
AUX
1V(P-P)
50mV (P-P)
-32V
1kHz
-18dB (100mV)
+31V
Q501
Q503
AUX
PHONO
PHONO
Q505
BALANCE
VOLUME
1kHz
-54dB (1.5mV)
Q507
REC (100mV)
20mV (P-P)
-31V

Remarks:
To check this circuit waveform, first set volume BASS, TREBLE, BALANCE and MIC controls to center position.

– DC VOLTAGE –

Q905	
C	+1.8V
B	+0.6V
E	+0.5V

Q906	
C	+14V
B	+1.4V
E	+0.8V

Q901	
C	-17V
B	+0.6V
E	+6V

Q903	
C	+4V
B	-17V
E	-18V

Q501	
C	+17V
B	0V
E	-0.6V

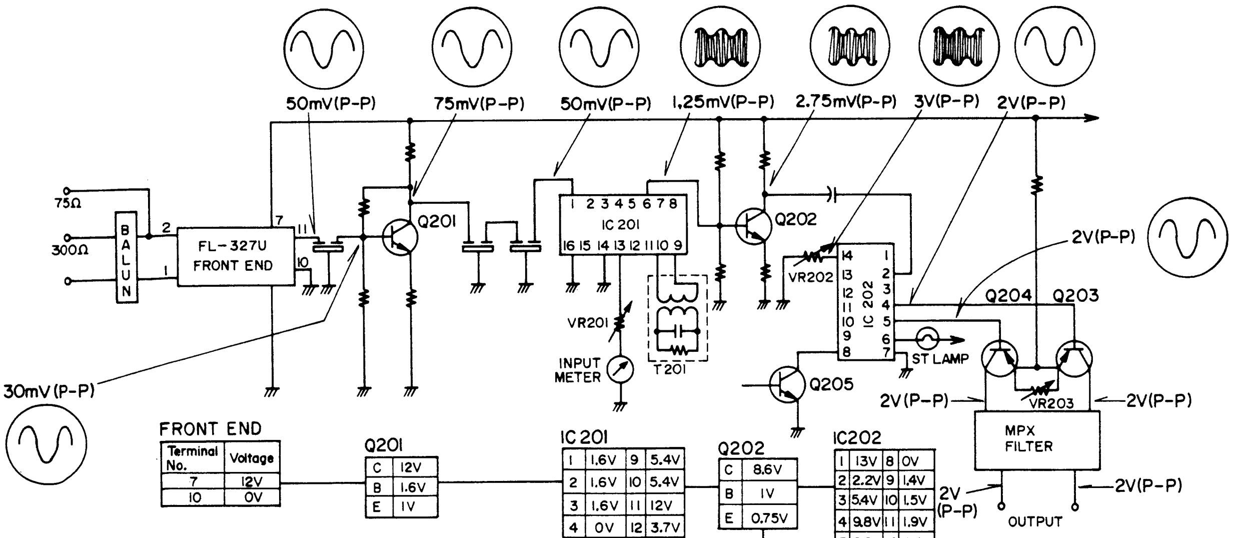
Q503	
C	+23V
B	0V
E	-0.6V

Q505	
C	-1.1V
B	-17V
E	-13V

Q507	
C	-1.2V
B	-13V
E	-19V

T-838

FM CIRCUIT


50mV(P-P)
75mV(P-P)
50mV(P-P)
1.25mV(P-P)
2.75mV(P-P)
3V(P-P)
2V(P-P)
75Ω
300Ω
BALUN
2
7
11
1
10
FL-327U FRONT END
Q201
1 2 3 4 5 6 7 8
IC 201
16 15 14 13 12 11 10 9
Q202
VR202
IC 202
2V(P-P)
Q204
Q203
VR201
INPUT METER
T201
ST LAMP
Q205
2V(P-P)
VR203
2V(P-P)
30mV (P-P)
MPX FILTER
2V (P-P)
2V(P-P)
OUTPUT

FRONT END

Terminal No.	Voltage
7	12V
10	0V

Q201	
C	12V
B	1.6V
E	1V

IC 201

1	1.6V	9	5.4V
2	1.6V	10	5.4V
3	1.6V	11	12V
4	0V	12	3.7V
5	0V	13	0V
6	5.4V	14	0V
7	5.2V	15	4.6V
8	5.4V	16	0V

Q202	
C	8.6V
B	1V
E	0.75V

Q205

C	2.4V	0.02V
B	0.25V	0.3V
E	0V	0V
	Muting ON	Muting OFF

IC202

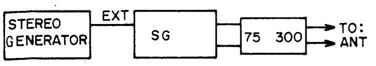
1	13V	8	0V
2	2.2V	9	1.4V
3	5.4V	10	1.5V
4	9.8V	11	1.9V
5	9.8V	12	2.2V
6	14V	13	2.2V
7	0V	14	3.4V

Q204	
C	5.8V
B	9.6V
E	11V

Q203	
C	5.8V
B	9.6V
E	11V

– DC VOLTAGE –

※VR201	METER ADJ
※VR 202	VCO ADJ
※VR 203	STEREO SEPARATION

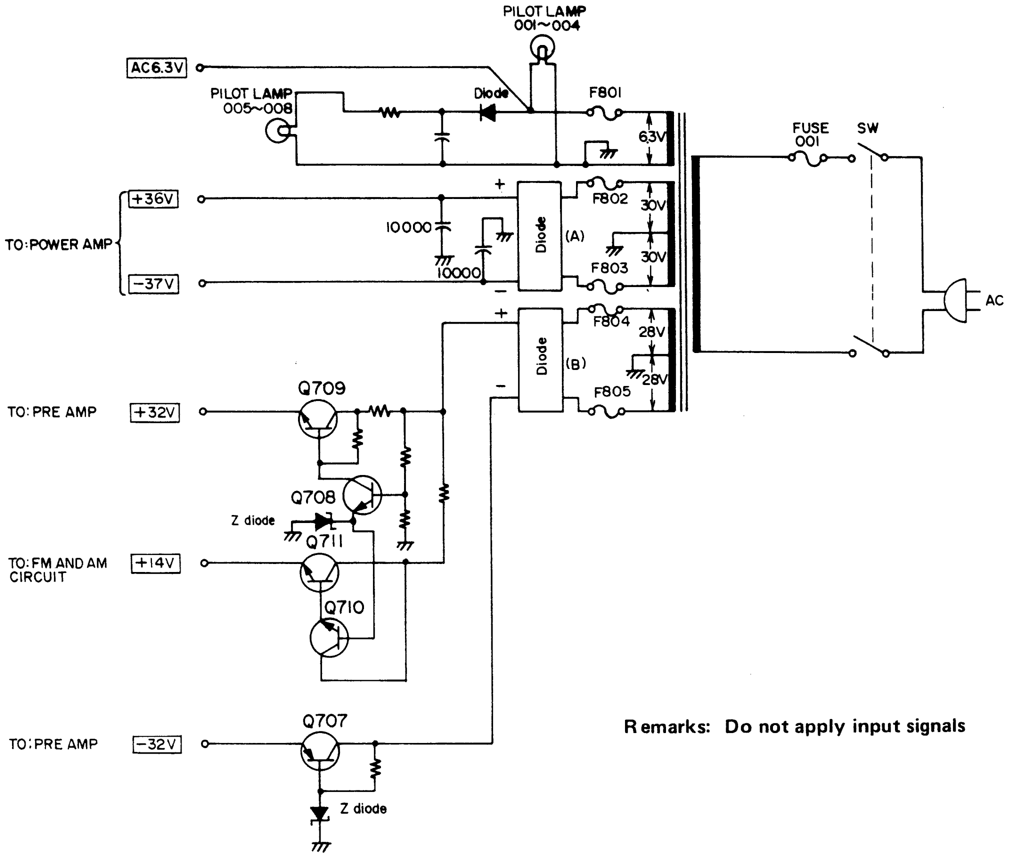

STEREO GENERATOR
EXT
SG
75 300
TO: ANT

T-837

VOLTAGE AND WAVEFORM SIGNAL DIAGRAMS

AG-5700

POWER CIRCUIT


PILOT LAMP
001~004
AC6.3V
PILOT LAMP
005~008
Diode
F801
6.3V
FUSE
001
SW
+36V
TO:POWER AMP
-37V
+
10000
Diode
(A)
F802
30V
30V
F803
10000
−
+
F804
28V
Diode
(B)
28V
F805
AC
−
Q709
TO: PRE AMP
+32V
Q708
Z diode
Q711
TO: FM AND AM
CIRCUIT
+14V
Q710
Q707
TO: PRE AMP
-32V
Z diode

Remarks: Do not apply input signals

– DC VOLTAGE –

Q709

C	+35V
B	+33V ←
E	+32V

Q708

C	+35V
B	+15V
E	+15V

(A)

Diode	
+	37V
−	37V

(B)

Diode	
+	38V
−	38V

Q711

C	+15V
B	+15V ←
E	+14V

Q710

C	+25V
B	+15V
E	+15V

Q707

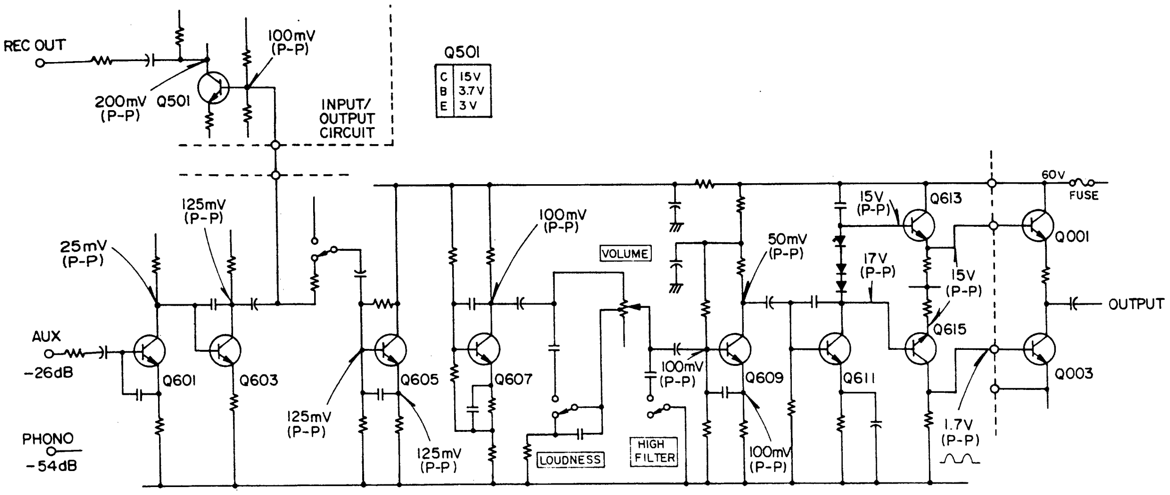
C	-38V
B	-33V ←
E	-32V

T-840

VOLTAGE AND WAVEFORM SIGNAL DIAGRAMS

AG-2700

AUDIO AMPL CIRCUIT


REC OUT
100mV (P-P)
200mV (P-P)
Q501
INPUT/ OUTPUT CIRCUIT
Q501
C 15V
B 3.7V
E 3V
60V
FUSE
125mV (P-P)
25mV (P-P)
100mV (P-P)
VOLUME
15V (P-P)
Q613
Q001
50mV (P-P)
17V (P-P)
15V (P-P)
OUTPUT
AUX
-26dB
Q601
Q603
Q605
Q607
100mV (P-P)
Q609
Q611
Q615
Q003
125mV (P-P)
125mV (P-P)
PHONO
-54dB
LOUDNESS
HIGH FILTER
100mV (P-P)
1.7V (P-P)

– DC VOLTAGE –

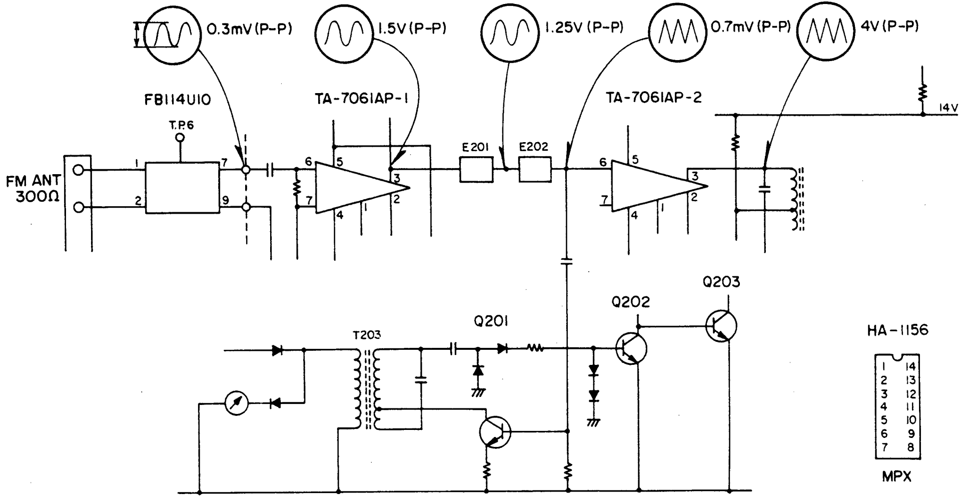
	Q601	Q603	Q605	Q607	Q609	Q611	Q613	Q001	Q615	Q003
C	1.5V	11V	25V	13V	12V	26V	26V	60V	25V	26V
B	0.6V	1.5V	12V	1.6V	0.8V	1V	1V	26V	26V	0.6V
E	0.1V	1.1V	11.5V	1.4V	0.3V	0.4V	26V	26V	0.6V	—

T-831

Remarks: (0 dB = 0.775V)

(1) Apply a 1 kHz −26 dB signal to the AUX input terminals. Check the waveform using an oscilloscope.
(2) Use −54 dB connected to the PHONO only terminals to test that input.
(3) Connect 8 ohm load resistor to output terminal to check POWER AMPL circuit.
(4) Diagram shows values read if using an oscilloscope (peak to peak). To obtain values which will be read when using a VTVM, divide indicated values (peak to peak) by 2.8.
(5) DC voltages shown are read using VTVM with DC 20k ohms/V input impedance.

FM MPX CIRCUIT


0.3mV (P-P)
1.5V (P-P)
1.25V (P-P)
0.7mV (P-P)
4V (P-P)
F8114U10
TA-7061AP-1
TA-7061AP-2
14V
T.P6
E201
E202
FM ANT 300Ω
1
2
7
9
6
5
3
7
4
1
2
Q203
Q202
Q201
T203
HA-1156
1 14
2 13
3 12
4 11
5 10
6 9
7 8
MPX

– DC VOLTAGE –

TA-7061AP-1	
1	1.9V
2	1.9V
3	9.6V
4	0V
5	9.0V
6	9.0V
7	1.9V

TA-7061AP-2	
1	1.9V
2	1.9V
3	10V
4	0V
5	8.8V
6	1.9V
7	1.9V

Q201	
C	12V
B	1.9V
E	1.6V

	Q202 MUTING SW at OUT	Q202	Q203 MUTING SW at OUT	Q203 MUTING SW at IN
C	0V	0.7V	2V	2V
B	0.3V	0V	0V	0.7V
E	0V	0V	0V	0V

MUTING SW at OUT

MUTING SW at IN

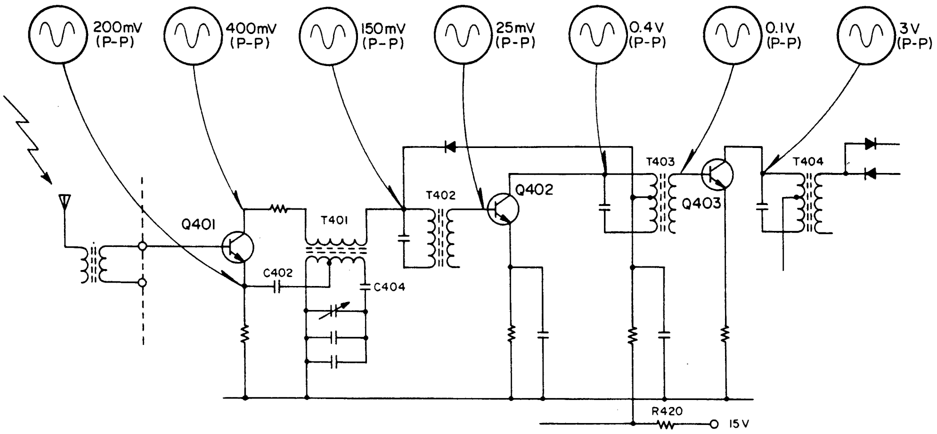
HA-1156			
1	12V	8	1.6V ← at MONO
2	2.4V	9	1.1V
3	5.3V	10	0.1V
4	8.6V	11	1.9V
5	8.7V	12	2.2V
6	13V	13	1.3V
7	0V	14	4V

T-829

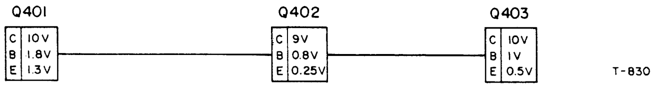
VOLTAGE AND WAVEFORM SIGNAL DIAGRAMS

AG-2700

AM CIRCUIT


200mV (P-P)
400mV (P-P)
150mV (P-P)
25mV (P-P)
0.4V (P-P)
0.1V (P-P)
3V (P-P)
Q401
C402
T401
C404
T402
Q402
T403
Q403
T404
R420
15V

– DC VOLTAGE –

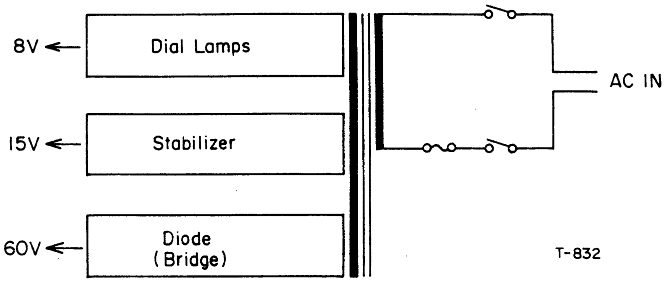


	Q401	Q402	Q403
C	10V	9V	10V
B	1.8V	0.8V	1V
E	1.3V	0.25V	0.5V

Remarks:

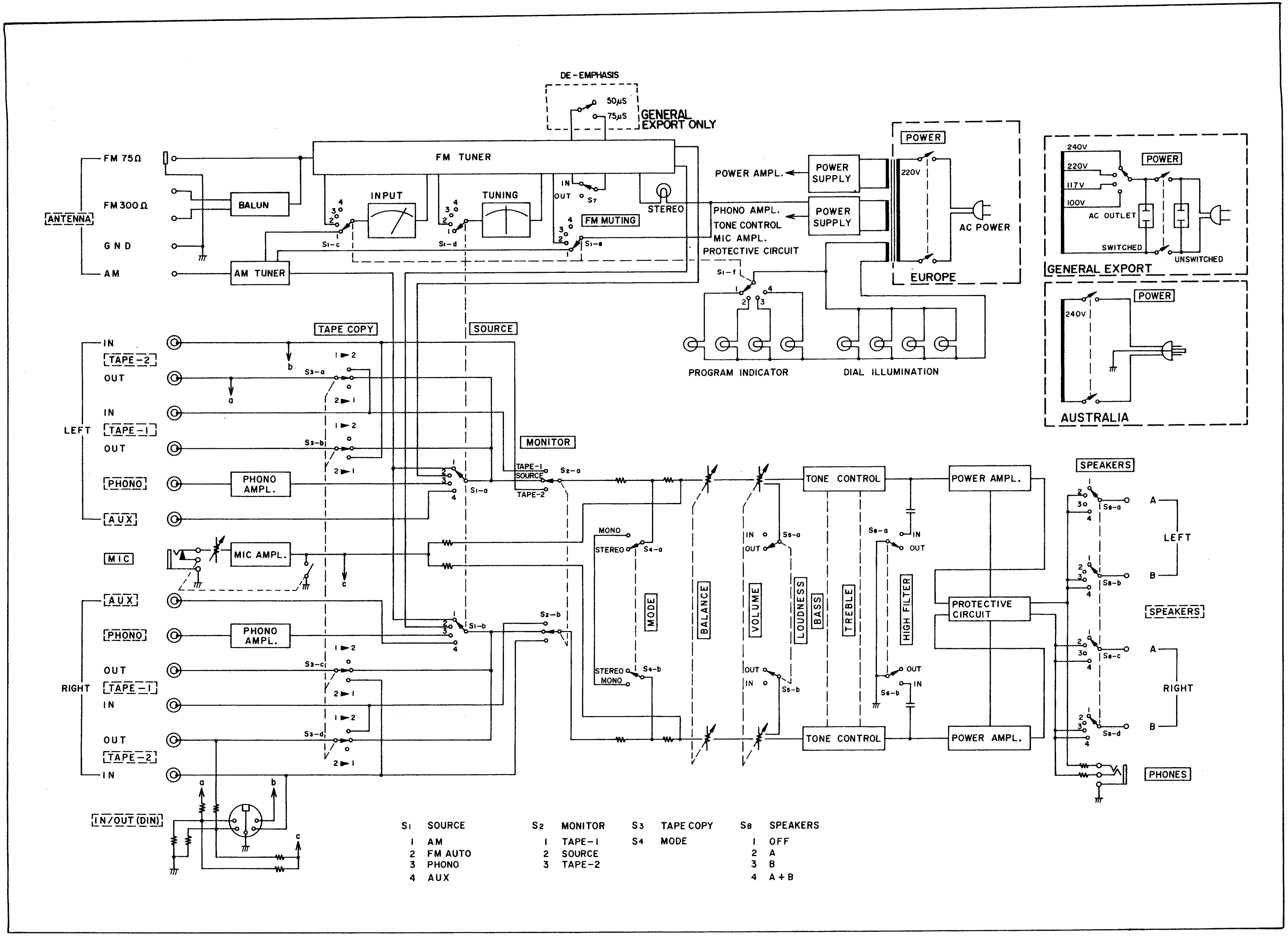
(1) Connect the Antenna terminal to AM antenna to receive radio broadcast signal (or use Signal Generator). Measure waveforms using an oscilloscope.
(2) Measure T401 for oscillation frequency only.
(3) Frequency of signal after T402 should be 455 KHz.
(4) If there is no waveform signal at emitter of Q401; T401, C404, C402 or Q401 is defective and should be replaced.
(5) If the voltage of waveform at Q402 or Q403 are incorrect, replace these parts.

POWER SUPPLY


8V
Dial Lamps
15V
Stabilizer
60V
Diode (Bridge)
AC IN
T-832

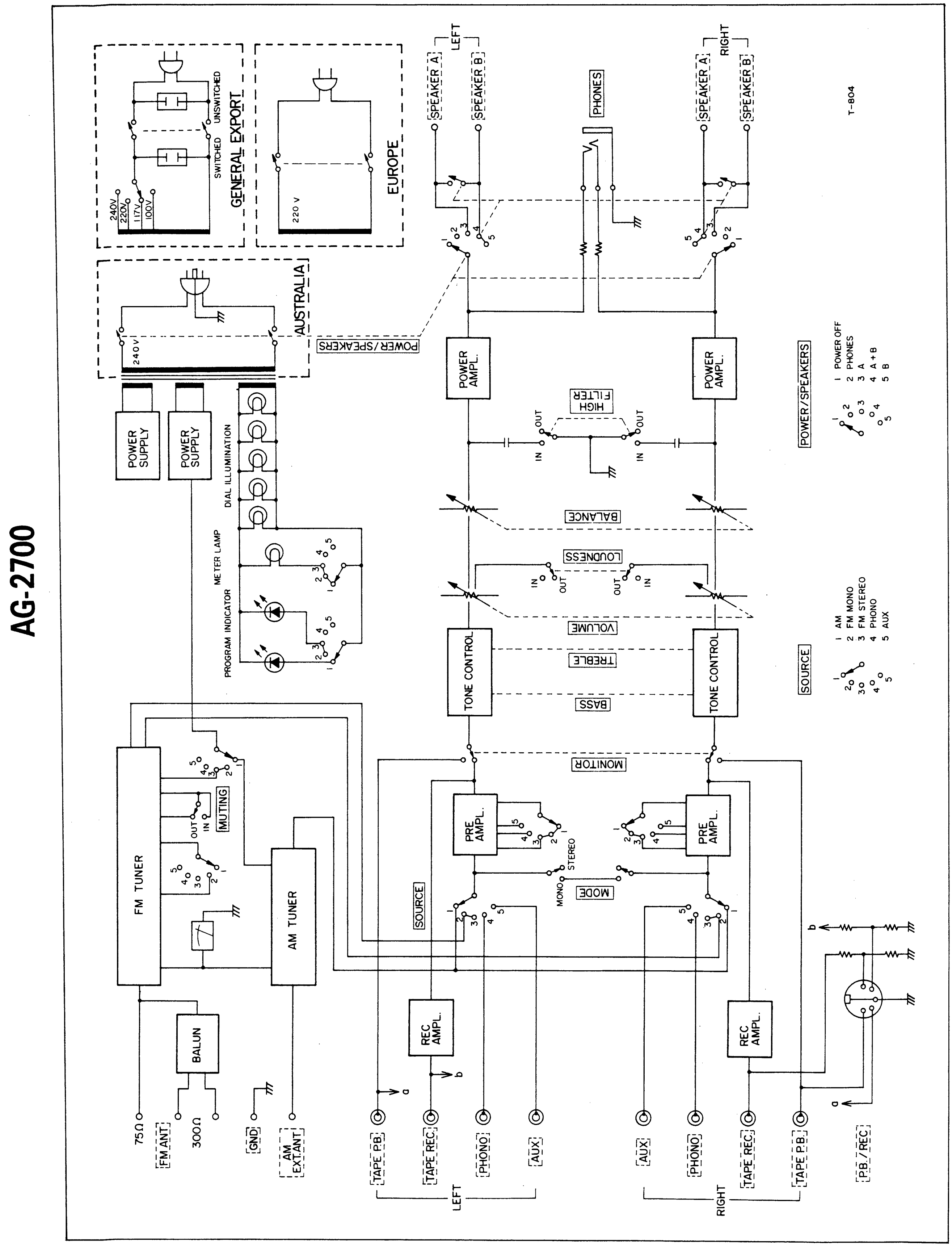
6. BLOCK DIAGRAM

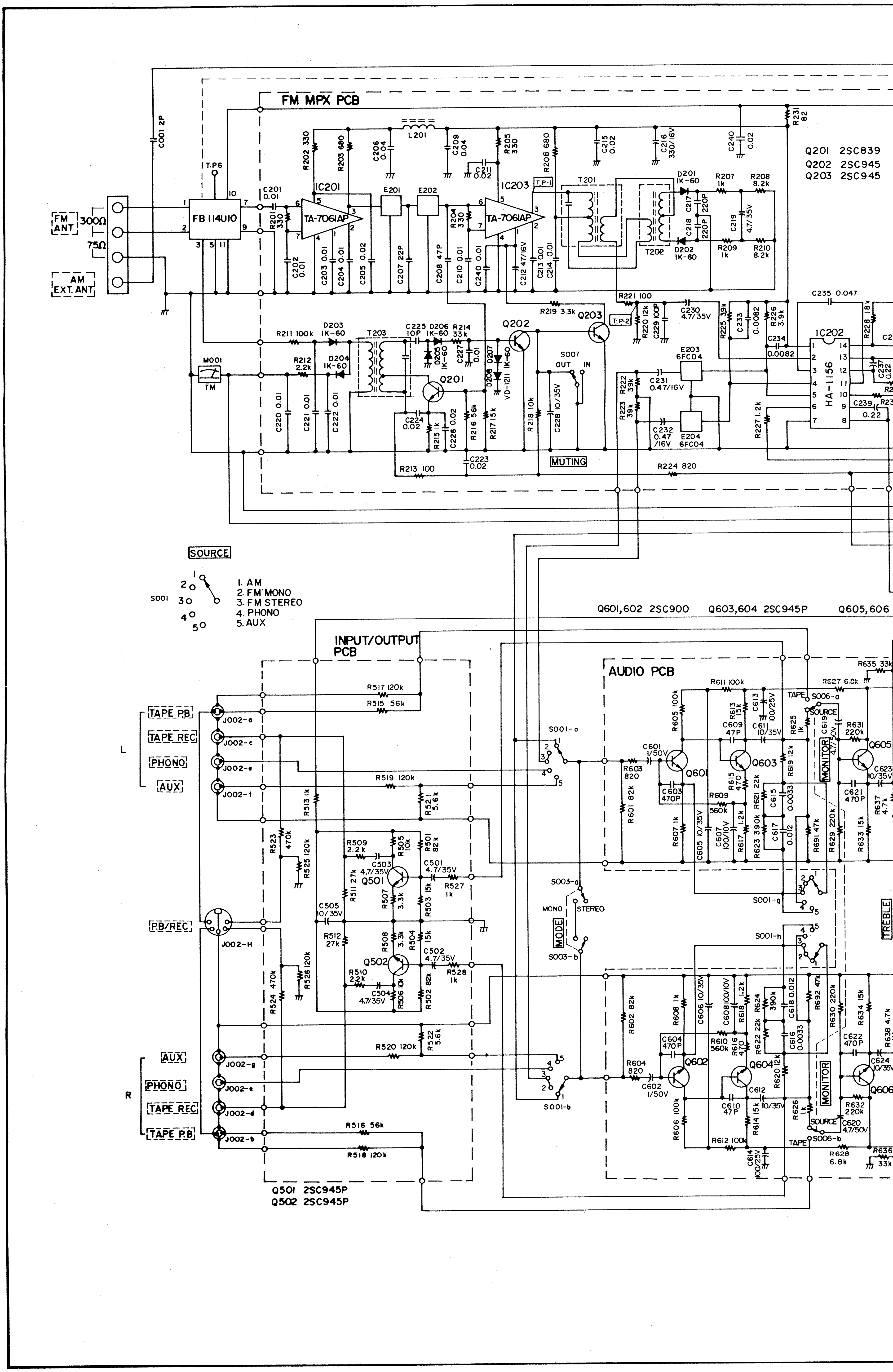
AG-5700

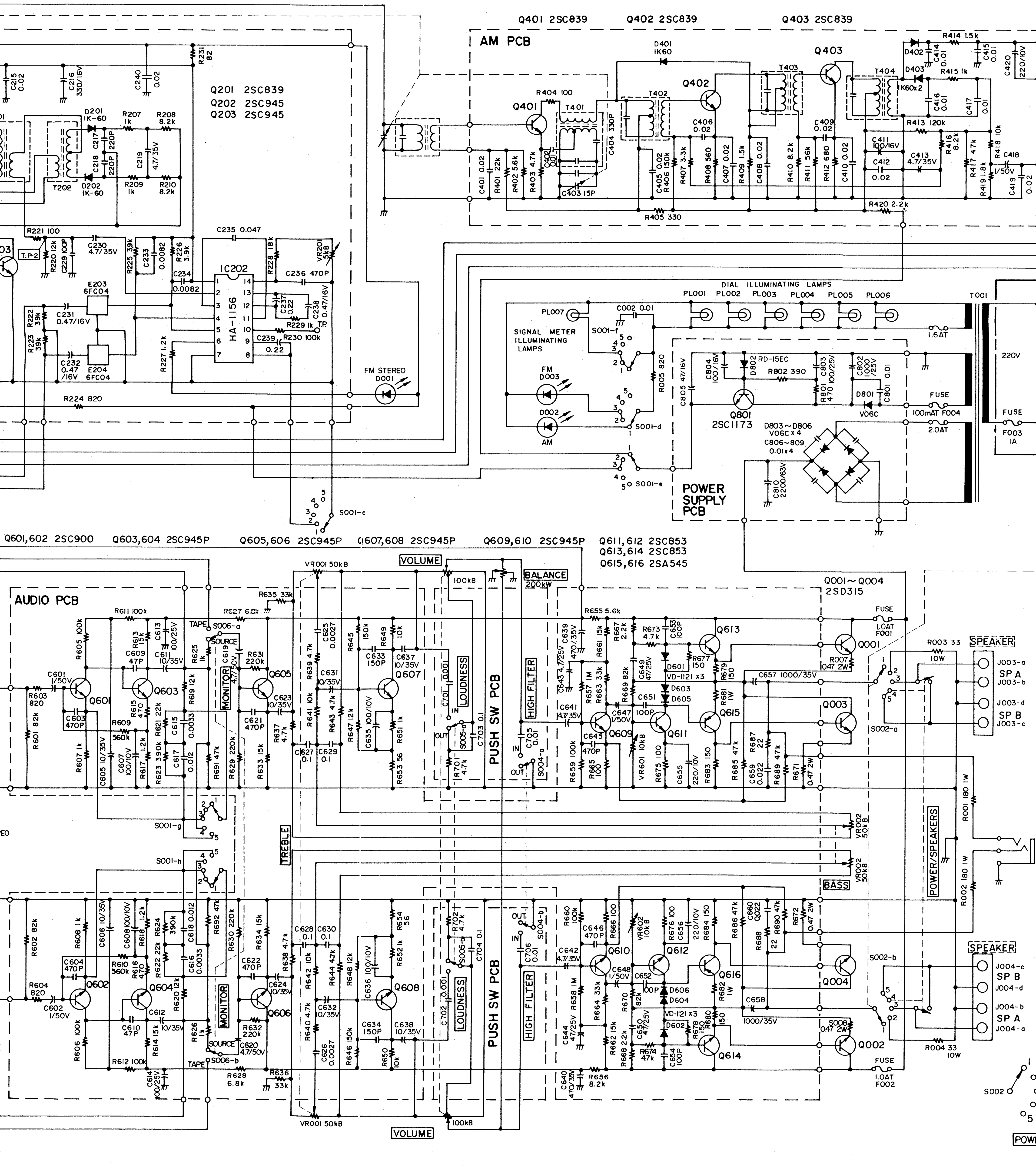

DE-EMPHASIS
50μS
75μS
GENERAL EXPORT ONLY
FM 75Ω
FM 300Ω
ANTENNA
GND
AM
BALUN
AM TUNER
FM TUNER
INPUT
TUNING
S1-c
S1-d
IN
OUT
S7
FM MUTING
S1-e
STEREO
POWER AMPL.
POWER SUPPLY
POWER SUPPLY
PHONO AMPL.
TONE CONTROL
MIC AMPL.
PROTECTIVE CIRCUIT
S1-f
POWER
220V
AC POWER
EUROPE
PROGRAM INDICATOR
DIAL ILLUMINATION
240V
220V
117V
100V
AC OUTLET
SWITCHED
UNSWITCHED
GENERAL EXPORT
240V
AUSTRALIA
TAPE COPY
SOURCE
MONITOR
IN
TAPE-2
OUT
LEFT
IN
TAPE-1
OUT
PHONO
AUX
MIC
AUX
PHONO
OUT
RIGHT
TAPE-1
IN
OUT
TAPE-2
IN
IN/OUT (DIN)
S3-a
S3-b
S3-c
S3-d
1 ► 2
2 ► 1
PHONO AMPL.
MIC AMPL.
PHONO AMPL.
S1-a
S1-b
TAPE-1
SOURCE
TAPE-2
S2-a
S2-b
MONO
STEREO
S4-a
S4-b
MODE
BALANCE
VOLUME
LOUDNESS
BASS
TREBLE
HIGH FILTER
S5-a
S5-b
S6-a
S6-b
TONE CONTROL
TONE CONTROL
POWER AMPL.
POWER AMPL.
PROTECTIVE CIRCUIT
SPEAKERS
S8-a
S8-b
S8-c
S8-d
A
B
LEFT
RIGHT
SPEAKERS
PHONES
a
b
c
S1 SOURCE
1 AM
2 FM AUTO
3 PHONO
4 AUX
S2 MONITOR
1 TAPE-1
2 SOURCE
3 TAPE-2
S3 TAPE COPY
S4 MODE
S8 SPEAKERS
1 OFF
2 A
3 B
4 A+B

BLOCK DIAGRAM

AG-2700


AG-2700
240V
220V
117V
100V
SWITCHED
UNSWITCHED
GENERAL EXPORT
220 V
EUROPE
240 V
AUSTRALIA
POWER/SPEAKERS
POWER SUPPLY
POWER SUPPLY
DIAL ILLUMINATION
METER LAMP
PROGRAM INDICATOR
FM TUNER
MUTING
OUT
IN
AM TUNER
BALUN
75Ω
300Ω
FM ANT
GND
AM EXT.ANT
SOURCE
PRE AMPL.
PRE AMPL.
STEREO
MONO
MODE
MONITOR
TONE CONTROL
TONE CONTROL
BASS
TREBLE
VOLUME
LOUDNESS
BALANCE
HIGH FILTER
POWER AMPL.
POWER AMPL.
SPEAKER A
SPEAKER B
LEFT
SPEAKER A
SPEAKER B
RIGHT
PHONES
T-804
REC AMPL.
REC AMPL.
TAPE P.B.
TAPE REC
PHONO
AUX
LEFT
AUX
PHONO
TAPE REC
TAPE P.B.
RIGHT
P.B./REC
a
b
POWER/SPEAKERS
1 POWER OFF
2 PHONES
3 A
4 A+B
5 B
SOURCE
1 AM
2 FM MONO
3 FM STEREO
4 PHONO
5 AUX


FM MPX PCB
FM ANT 300Ω 75Ω
AM EXT. ANT
C001 2P
T.P6
FB 114U10
IC201 TA-7061AP
IC203 TA-7061AP
L201
E201
E202
T.P-1
T201
T202
D201 1K-60
D202 1K-60
R207 1k
R208 8.2k
R209 1k
R210 8.2k
R231 82
Q201 2SC839
Q202 2SC945
Q203 2SC945
R219 3.3k
Q203
T.P-2
R221 100
C230 4.7/35V
C235 0.047
IC202 HA-1156
E203 6FC04
E204 6FC04
C231 0.47/16V
C232 0.47/16V
R224 820
M001 TM
T203
D203 1K-60
D204 1K-60
D205 1K-60
D206 1K-60
D207 VD-1211
D208 1K-60
Q201
Q202
R211 100k
R212 2.2k
R213 100
R214 33k
C225 10P
S007 OUT IN
MUTING
SOURCE
S001
1. AM
2. FM MONO
3. FM STEREO
4. PHONO
5. AUX
Q601,602 2SC900
Q603,604 2SC945P
Q605,606
INPUT/OUTPUT PCB
AUDIO PCB
L
TAPE P.B
TAPE REC
PHONO
AUX
J002-a
J002-c
J002-e
J002-f
R517 120k
R515 56k
R519 120k
R521 5.6k
R513 1k
R523 470k
R525 120k
R509 2.2k
R505 10k
R501 82k
C503 4.7/35V
Q501
C501 4.7/35V
R527 1k
R511 27k
R507 3.3k
R503 15k
C505 10/35V
R512 27k
R508 3.3k
R504 15k
Q502
C502 4.7/35V
R528 1k
R510 2.2k
C504 4.7/35V
R506 10k
R502 82k
P.B/REC
J002-H
R524 470k
R526 120k
R522 5.6k
R520 120k
R
J002-g
J002-d
J002-b
R516 56k
R518 120k
Q501 2SC945P
Q502 2SC945P
S001-a
S001-b
S001-g
S001-h
S003-a
S003-b
MONO
STEREO
MODE
R611 100k
R605 100k
C601 1/50V
R603 820
Q601
C603 470P
R601 82k
R607 1k
C605 10/35V
C607 100/10V
R609 560k
C609 47P
R613 15k
C613 100/25V
C611 10/35V
Q603
R615 470
R617 1.2k
R621 22k
R623 390k
C615 0.0033
C617 0.012
R619 12k
R625 1k
R691 47k
R629 220k
TAPE
S006-a
SOURCE
MONITOR
C619 4.7/50V
R631 220k
Q605
C623 10/35V
C621 470P
R633 15k
R637 4.7k
R627 6.8k
R635 33k
TREBLE
R602 82k
R608 1k
C606 10/35V
C608 100/10V
R618 1.2k
R624 390k
C618 0.012
R692 47k
R630 220k
R634 15k
C604 470P
R610 560k
R616 470
R622 22k
C616 0.0033
C622 470P
R638 4.7k
R604 820
C602 1/50V
Q602
Q604
R620 12k
C624 10/35V
Q606
C610 47P
C612 10/35V
R614 15k
R626 1k
R632 220k
C620 4.7/50V
R606 100k
R612 100k
C614 100/25V
S006-b
R628 6.8k
R636 33k


AM PCB
Q401 2SC839
Q402 2SC839
Q403 2SC839
Q201 2SC839
Q202 2SC945
Q203 2SC945
IC202
HA-1156
T401
T402
T403
T404
T202
D401 1K60
D201 1K-60
D202 1K-60
FM STEREO D001
DIAL ILLUMINATING LAMPS
PL001
PL002
PL003
PL004
PL005
PL006
PL007
SIGNAL METER ILLUMINATING LAMPS
FM D003
D002 AM
T001
220V
1.6AT
FUSE
100mAT F004
2.0AT
F003 1A
Q801 2SC1173
D803~D806 V06C x 4
C806~809 0.01x4
POWER SUPPLY PCB
S001-c
S001-d
S001-e
S001-f
Q601,602 2SC900
Q603,604 2SC945P
Q605,606 2SC945P
Q607,608 2SC945P
Q609,610 2SC945P
Q611,612 2SC853
Q613,614 2SC853
Q615,616 2SA545
AUDIO PCB
Q001~Q004 2SD315
VR001 50kB
VOLUME
BALANCE 200kW
LOUDNESS
PUSH SW PCB
HIGH FILTER
MONITOR
TREBLE
BASS
VR002 50kB
TAPE S006-a
SOURCE
TAPE S006-b
S001-g
S001-h
S004-a
S004-b
S005-a
S005-b
FUSE 1.0AT F001
FUSE 1.0AT F002
R003 33 10W
R004 33 10W
SPEAKER
SP A
SP B
J003-a
J003-b
J003-d
J003-c
J004-c
J004-d
J004-b
J004-a
S002-a
S002-b
S002
POWER/SPEAKERS
R001 180 1W
R002 180 1W

NOTES

1. ALL RESISTORS ARE ¼ WATT, 5%, UNLESS MARKED OTHERWISE. RESISTOR VALUES ARE IN OHMS (k=1,000 OHMS, M=1,000,000 OHMS)
2. ALL CAPACITOR VALUES ARE IN MICROFARADS (p=PICOFARADS).

6	
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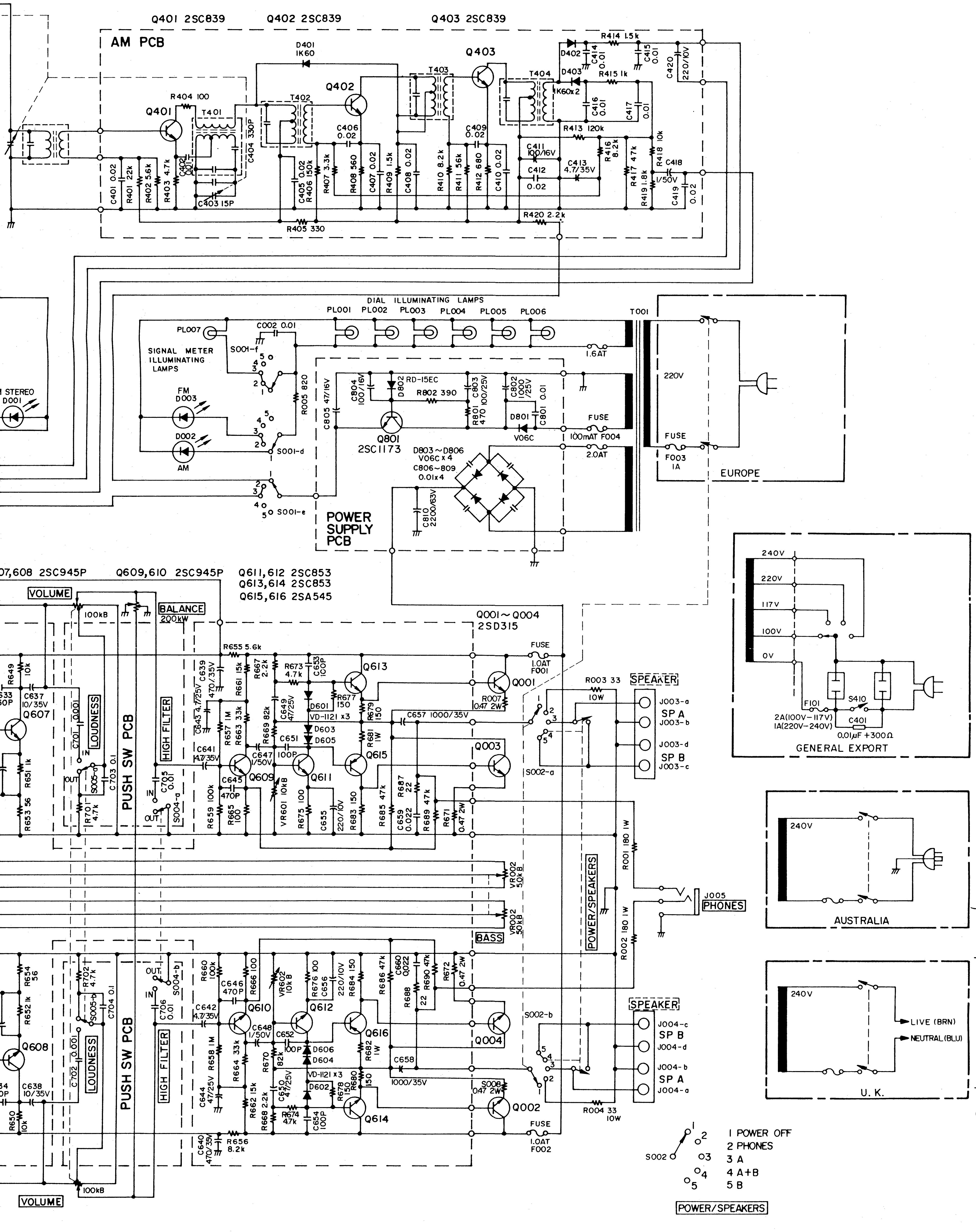
1	07
REVISION	DA


AM PCB
Q401 2SC839
Q402 2SC839
Q403 2SC839
D401 1K60
T401
T402
T403
T404
D402
D403 1K60x2
R414 1.5k
R415 1k
R404 100
R413 120k
R420 2.2k
R405 330
DIAL ILLUMINATING LAMPS
PL001 PL002 PL003 PL004 PL005 PL006
PL007
SIGNAL METER ILLUMINATING LAMPS
STEREO D001
FM D003
AM D002
S001-f
S001-d
S001-e
T001
1.6AT
FUSE 100mAT F004
2.0AT
Q801 2SC1173
D802 RD-15EC
D801 V06C
D803~D806 V06C x 4
C806~809 0.01x4
C810 2200/63V
POWER SUPPLY PCB
220V
FUSE F003 1A
EUROPE
240V
220V
117V
100V
0V
F101
S410
2A(100V-117V)
1A(220V-240V)
C401 0.01μF +300Ω
GENERAL EXPORT
Q607,608 2SC945P
Q609,610 2SC945P
Q611,612 2SC853
Q613,614 2SC853
Q615,616 2SA545
Q001~Q004 2SD315
VOLUME 100kB
BALANCE 200kW
LOUDNESS
PUSH SW PCB
HIGH FILTER
S004-a
S004-b
S005-a
S005-b
FUSE 1.0AT F001
FUSE 1.0AT F002
R003 33 10W
R004 33 10W
SPEAKER
J003-a SP A J003-b
J003-d SP B J003-c
J004-c SP B J004-d
J004-b SP A J004-a
S002-a
S002-b
POWER/SPEAKERS
R001 180 1W
R002 180 1W
J005 PHONES
VR002 50kB
BASS
AUSTRALIA
240V
LIVE (BRN)
NEUTRAL (BLU)
U. K.
S002
1 POWER OFF
2 PHONES
3 A
4 A+B
5 B
POWER/SPEAKERS

S-115

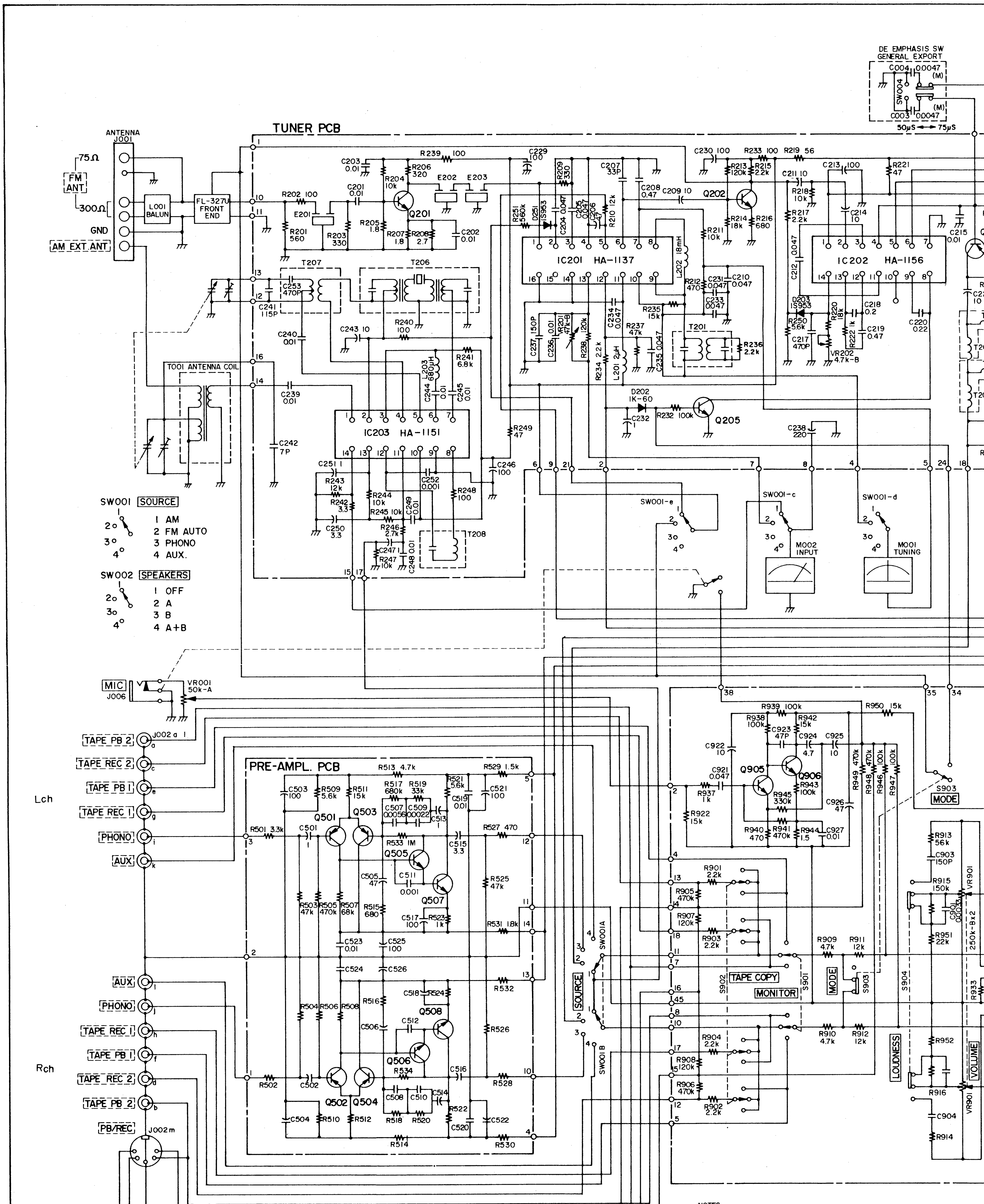
NOTES

1. ALL RESISTORS ARE ¼ WATT, 5%, UNLESS MARKED OTHERWISE.
RESISTOR VALUES ARE IN OHMS (k=1,000 OHMS, M=1,000,000 OHMS)
2. ALL CAPACITOR VALUES ARE IN MICROFARADS (p=PICOFARADS).

REVISION	DATE	CHANGE NO.
6	·	
5	·	
4	·	
3	·	
2	06·77	
1	07·76	

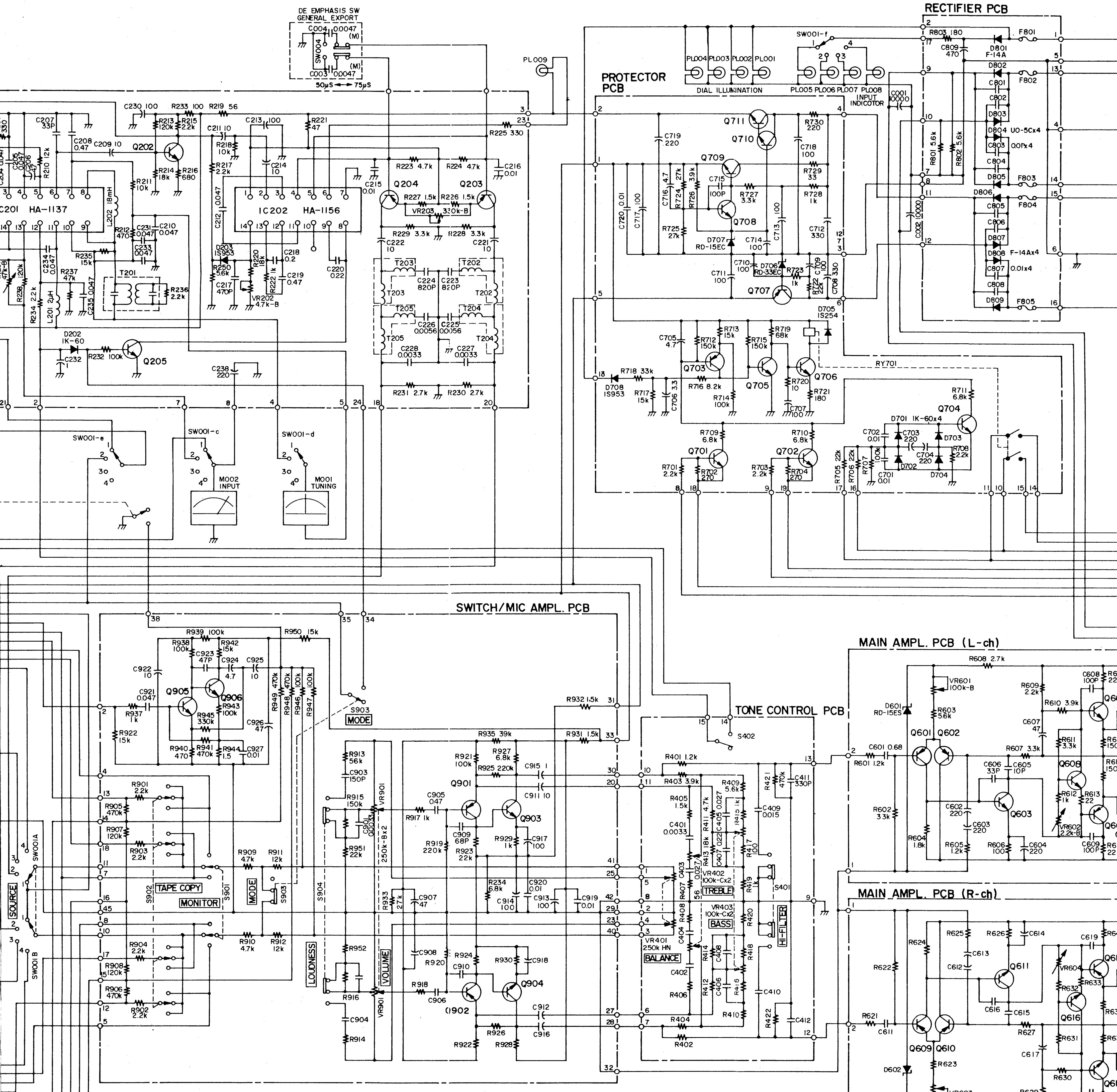
AM/FM STEREO RECEIVER
MODEL NO
AG-2700
SHEET NO
TEAC CORPORATION

AG 2700


DE EMPHASIS SW
GENERAL EXPORT
SW004
C004 .00047 (M)
C003 .00047 (M)
50μS ←→ 75μS
TUNER PCB
ANTENNA J001
75Ω
FM ANT
300Ω
GND
AM EXT ANT
L001 BALUN
FL-327U FRONT END
T001 ANTENNA COIL
IC201 HA-1137
IC202 HA-1156
IC203 HA-1151
Q201
Q202
Q205
T201
T206
T207
T208
E201
E202
E203
L201 2μH
L202 18mH
L203 680μH
D202 1K-60
D203 1S953
VR201 47k-B
VR202 4.7k-B
SW001 SOURCE
1 AM
2 FM AUTO
3 PHONO
4 AUX.
SW002 SPEAKERS
1 OFF
2 A
3 B
4 A+B
SW001-e
SW001-c
SW001-d
M002 INPUT
M001 TUNING
MIC
J006
VR001 50k-A
TAPE PB 2
TAPE REC 2
TAPE PB 1
TAPE REC 1
PHONO
AUX
J002 a
J002 m
PB/REC
Lch
Rch
PRE-AMPL. PCB
Q501
Q502
Q503
Q504
Q505
Q506
Q507
Q508
SW001A
SW001B
SOURCE
Q905
Q906
S901
S902
S903
S904
TAPE COPY
MONITOR
MODE
LOUDNESS
VOLUME
VR901 250k-Bx2

NOTES

2SC839	Q201	2SD381	
2SC900	Q202	2SB536	
2SA733	Q203, Q204, Q703	2SD287	
2SC945	Q205, Q608, Q616, Q701, Q702 Q704, Q705, Q710, Q905, Q906	2SB539	
		2SD234	
2SA750	Q501～Q504, Q901, Q902	2SB434	
2SC1222	Q505～Q508, Q903, Q904	2SC815	
2SA640	Q601, Q602, Q609, Q610		



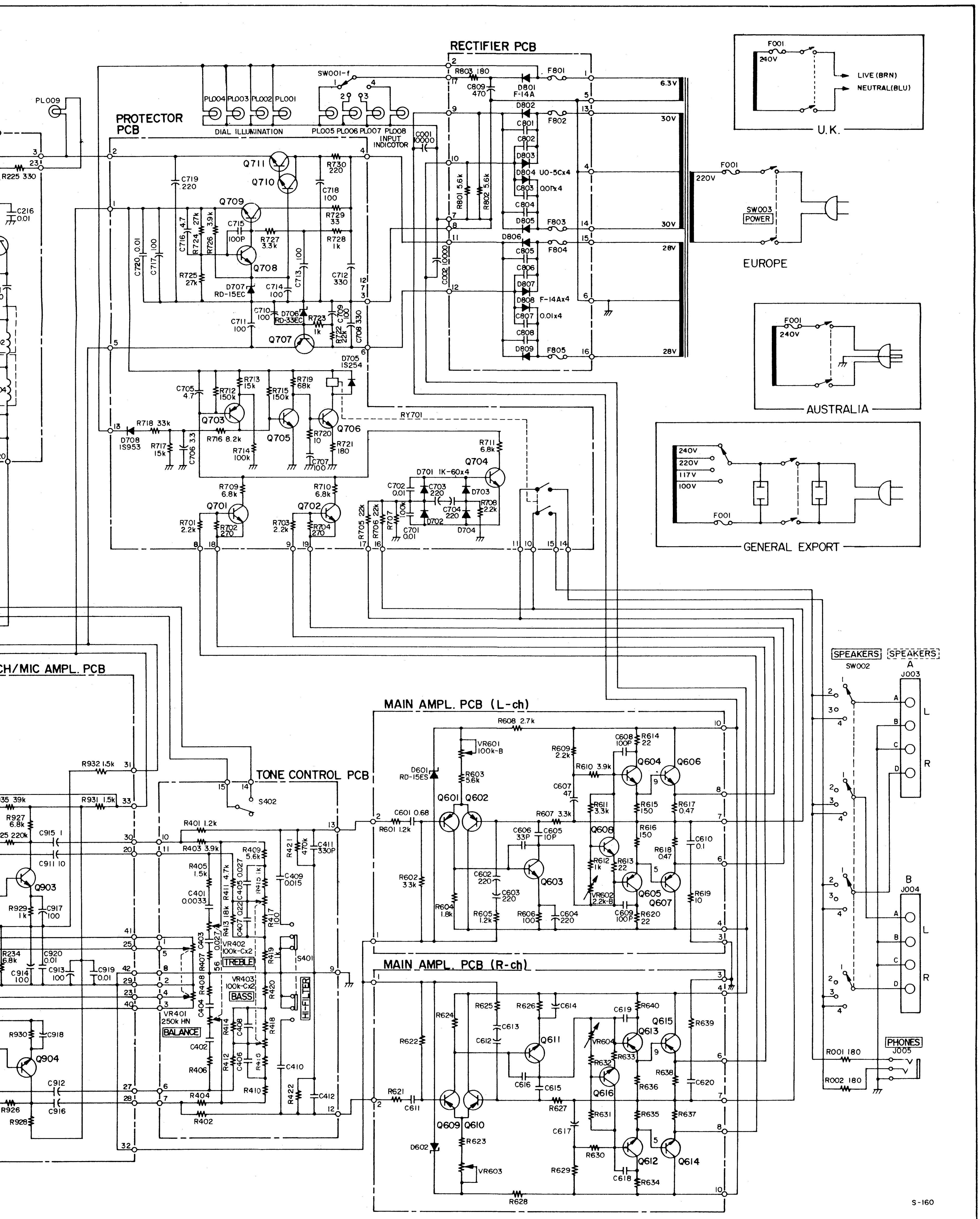
DE EMPHASIS SW
GENERAL EXPORT
50μS ←→ 75μS
RECTIFIER PCB
PROTECTOR PCB
DIAL ILLUMINATION
INPUT INDICATOR
IC201 HA-1137
IC202 HA-1156
M002 INPUT
M001 TUNING
SW001-c
SW001-d
SW001-e
SW001-f
SWITCH/MIC AMPL. PCB
MODE
TAPE COPY
MONITOR
SOURCE
LOUDNESS
VOLUME
TONE CONTROL PCB
BALANCE
TREBLE
BASS
HI-FILTER
MAIN AMPL. PCB (L-ch)
MAIN AMPL. PCB (R-ch)
RY701

NOTES

2SC839	Q201
2SC900	Q202
2SA733	Q203, Q204, Q703
2SC945	Q205, Q608, Q616, Q701, Q702 Q704, Q705, Q710, Q905, Q906
2SA750	Q501～Q504, Q901, Q902
2SC1222	Q505～Q508, Q903, Q904
2SA640	Q601, Q602, Q609, Q610
2SD381	Q603, Q604, Q611, Q612
2SB536	Q605, Q613
2SD287	Q606, Q614
2SB539	Q607, Q615
2SD234	Q706, Q709, Q711
2SB434	Q707
2SC815	Q708

NOTES

1. ALL RESISTORS ARE ¼ WATT, 5%, UNLESS MARKED OTHERWISE. RESISTOR VALUES ARE IN OHMS (k=1,000 OHMS, M=1,000,000 OHMS).
2. ALL CAPACITOR VALUES ARE IN MICROFARADS (p=PICOFARADS).


RECTIFIER PCB
PROTECTOR PCB
PL009
PL004 PL003 PL002 PL001
DIAL ILLUMINATION
SW001-f
PL005 PL006 PL007 PL008
INPUT INDICATOR
C001 10000
C002 10000
R803 180
C809 470
D801 F-14A
F801
F802
F803
F804
F805
D802
D803
D804 U0-5Cx4
D805
D806
D807
D808 F-14Ax4
D809
C801
C802
C803 0.01x4
C804
C805
C806
C807 0.01x4
C808
R801 5.6k
R802 5.6k
6.3V
30V
30V
28V
28V
Q711
Q710
Q709
Q708
Q707
R730 220
C718 100
R729 33
R728 1k
C712 330
C719 220
C716 4.7
R724 27k
R726 3.9k
C715 100P
R727 3.3k
C713 100
C720 0.01
C717 100
R725 27k
D707 RD-15EC
C714 100
C710 100
D706 RD-33EC
R723 1k
C709 100
R722 22k
C708 330
C711 100
D705 1S254
RY701
C705 4.7
R712 150k
R713 15k
R715 150k
R719 68k
Q703
Q705
Q706
R720 10
R721 180
R716 8.2k
R714 100k
C707 100
R718 33k
D708 1S953
R717 15k
C706 3.3
R711 6.8k
Q704
D701 1K-60x4
C702 0.01
C703 220
D703
R708 2.2k
C704 220
D702
D704
C701 0.01
R707 100k
R706 22k
R705 22k
R709 6.8k
R710 6.8k
Q701
Q702
R701 2.2k
R702 270
R703 2.2k
R704 270
U.K.
F001
240V
LIVE (BRN)
NEUTRAL(BLU)
220V
SW003 POWER
EUROPE
AUSTRALIA
240V
220V
117V
100V
GENERAL EXPORT
R225 330
C216 0.01
CH/MIC AMPL. PCB
R932 1.5k
R931 1.5k
35 39k
R927 6.8k
25 220k
C915 1
C911 10
Q903
R929 1k
C917 100
R234 6.8k
C920 0.01
C914 100
C913 100
C919 0.01
R930
C918
Q904
C912
C916
R926
R928
TONE CONTROL PCB
S402
R401 1.2k
R403 3.9k
R405 1.5k
C401 0.0033
R409 5.6k
R411 4.7k
C405 0.027
R413 18k
C407
R415 1k
R417 100
C409 0.015
R421 470k
C411 330P
C403 0.027
R407
VR402 100k-Cx2
TREBLE
R419
S401
R408
VR403 100k-Cx2
BASS
R420
HI-FILTER
C404
VR401 250k HN
BALANCE
C402
R406
R414
C408
R418
R412
C406
R416
C410
R410
R422
C412
R404
R402
MAIN AMPL. PCB (L-ch)
R608 2.7k
VR601 100k-B
D601 RD-15ES
R603 5.6k
Q601
Q602
R609 2.2k
R610 3.9k
C608 100P
R614 22
Q604
Q606
C607 47
R611 3.3k
R615 150
R617 0.47
C601 0.68
R601 1.2k
R607 3.3k
C606 33P
C605 10P
Q608
R616 150
R618 0.47
C610 0.1
R602 3.3k
C602 220
C603 220
Q603
R612 1k
R613 22
VR602 2.2k-B
Q605
Q607
R619 10
R604 1.8k
R605 1.2k
R606 100
C604 220
C609 100P
R620 22
MAIN AMPL. PCB (R-ch)
R625
R626
C614
C619
R640
R624
C613
Q613
Q615
R639
R622
C612
Q611
VR604
R633
R632
R638
C616
C615
Q616
R636
C620
R621
C611
R627
Q609
Q610
R631
R635
R637
C617
D602
R623
R630
Q612
Q614
VR603
R629
C618
R634
R628
SPEAKERS
SW002
SPEAKERS A
J003
B
J004
L
R
PHONES
J005
R001 180
R002 180
S-160

NOTES

1. ALL RESISTORS ARE ¼ WATT, 5%, UNLESS MARKED OTHERWISE.
RESISTOR VALUES ARE IN OHMS (k=1,000 OHMS, M=1,000,000 OHMS).
2. ALL CAPACITOR VALUES ARE IN MICROFARADS (p=PICOFARADS).

REVISION	DATE	CHANGE NO.
6	·	
5	·	
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AM/FM
STEREO RECEIVER
MODEL NO.
AG-5700
SHEET NO.

TEAC CORPORATION

TEAC®

PARTS LIST

AG-5700
AG-2700

FM/AM Stereo Receiver

TABLE OF CONTENTS

1. AG-5700 SECTION

1-1. EXPLODED VIEWS AND PARTS LIST

EXPLODED VIEW-1 . . . . 2, 3
EXPLODED VIEW-2 . . . . 4, 5

1-2. PC BOARD AND PARTS LIST

TUNER 6, 10
MAIN AMPL. (Left channel) 7, 12
MAIN AMPL. (Right channel) 7, 13
PROTECTOR 8, 14
SWITCH/MIC AMPL. 8, 15
TONE CONTROL 9, 17
PRE-AMPL. 9, 17
RECTIFIER 9, 18

2. AG-2700 SECTION

2-1. EXPLODED VIEW AND PARTS LIST . . . . . . .20~22

2-2. PC BOARD AND PARTS LIST

FM MPX PC BOARD 23, 25
AM PC BOARD 23, 26
INPUT/OUTPUT PC BOARD 23, 27
AUDIO PC BOARD 24, 28
PUSH SWITCH PC BOARD 24, 30
POWER SUPPLY PC BOARD 24, 30

3. ASSEMBLING HARDWARE CODING LIST . . . 31

PARTS ORDERING INFORMATION

Spare parts are available through your nearest TEAC Authorized Service Center or directly from the TEAC office, the address of which is written on the back cover. When ordering parts, always include the following information:

1. MODEL
2. REF. NO.
3. PARTS NO.
4. DESCRIPTION
5. UNIT SERIAL NO.
6. MANUAL CODE NO.

NOTICE REGARDING PARTS ORDERS

1. Do not order by only REF. NO.
2. In some instances, individual minor parts are not available. In such a case, the entire assembly including the part requested will be sent to you.
3. Parts are identical between the different models with the exceptions as coded by the designations in the REMARKS column.
4. PC Boards shown viewed from foil side.
5. Parts marked with *require longer delivery time than regular parts.

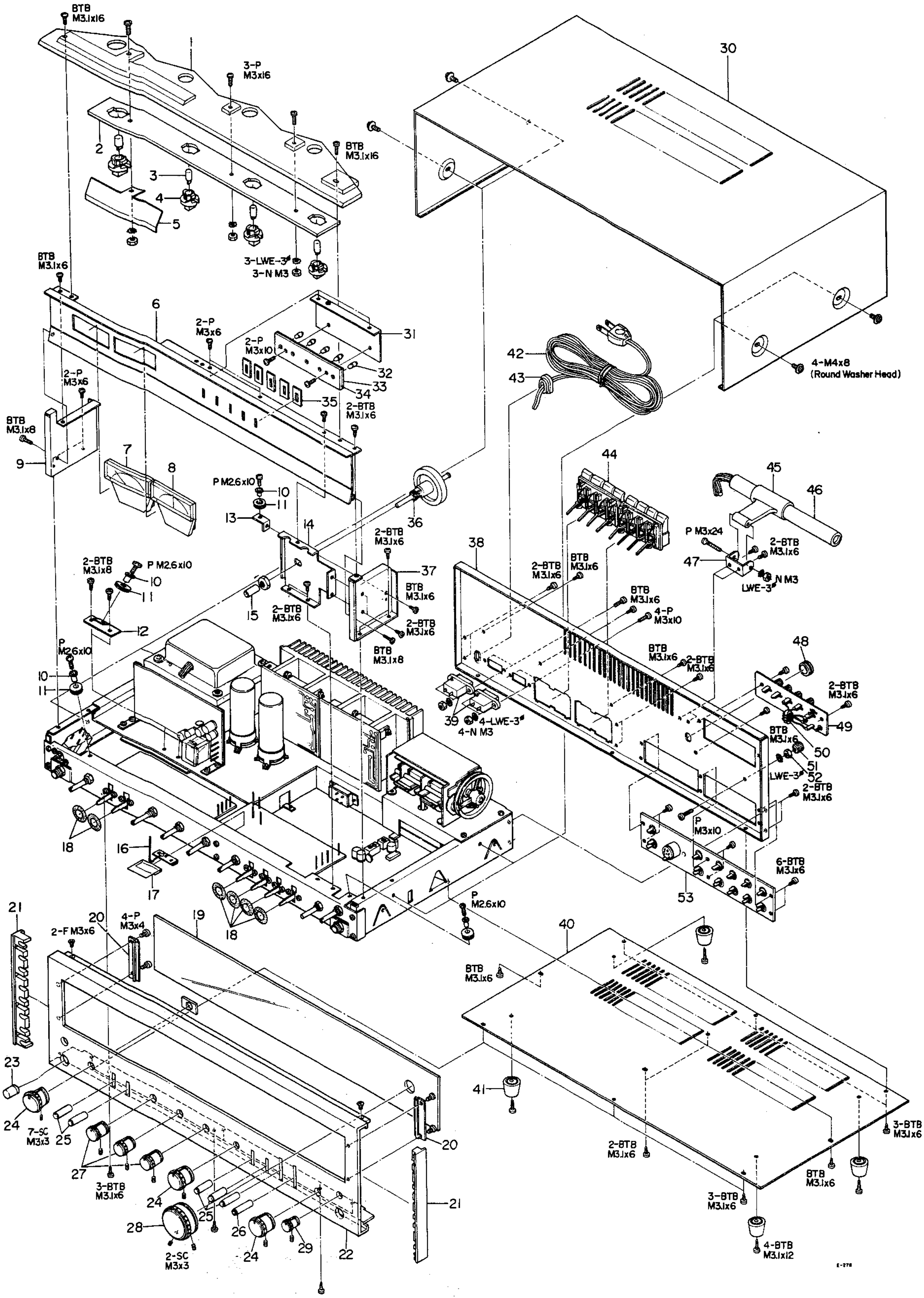
TEAC CORPORATION

Effective: June 1977

1. AG-5700 SECTION

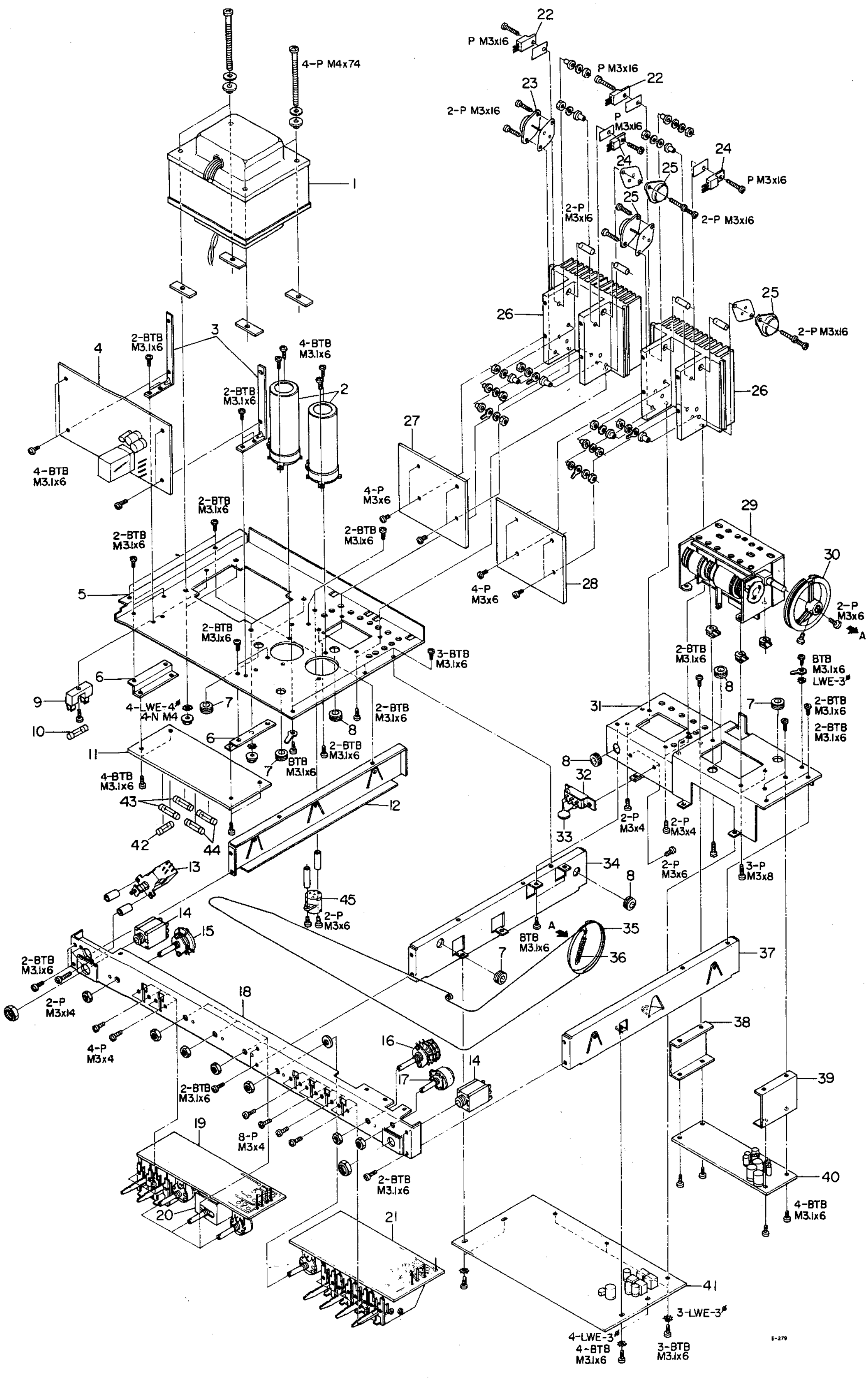
1-1. EXPLODED VIEWS AND PARTS LIST

EXPLODED VIEW-1


BTB M3.1x16
1
3-P M3x16
2
BTB M3.1x16
3
4
5
3-LWE-3
3-N M3
30
4-M4x8 (Round Washer Head)
BTB M3.1x6
6
2-P M3x6
2-P M3x10
31
32
33
34
35
2-BTB M3.1x6
42
43
2-P M3x6
BTB M3.1x8
9
7
8
P M2.6x10
10
11
13
14
36
44
45
46
P M3x24
2-BTB M3.1x6
47
LWE-3
N M3
38
2-BTB M3.1x6
BTB M3.1x6
37
BTB M3.1x6
2-BTB M3.1x6
BTB M3.1x8
2-BTB M3.1x8
P M2.6x10
10
11
12
15
2-BTB M3.1x6
BTB M3.1x6
4-P M3x10
BTB M3.1x6
2-BTB M3.1x6
48
2-BTB M3.1x6
49
BTB M3.1x6
50
51
LWE-3
52
2-BTB M3.1x6
P M2.6x10
10
11
39
4-LWE-3
4-N M3
P M3x10
18
16
17
18
53
6-BTB M3.1x6
P M2.6x10
21
20
4-P M3x4
2-F M3x6
19
40
BTB M3.1x6
23
24
7-SC M3x3
25
41
27
3-BTB M3.1x6
24
25
20
21
26
24
28
29
22
2-SC M3x3
2-BTB M3.1x6
3-BTB M3.1x6
BTB M3.1x6
3-BTB M3.1x6
4-BTB M3.1x12
E-276

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1 - 1	*51912720	Plate, Dial Illumine	
1 - 2	*51912690	Plate, Lamp Socket	
1 - 3	51912670	Lamp, Dial	
1 - 4	*51912680	Socket	
1 - 5	*51913800	Plate, Meter	
1 - 6	51912240	Dial Scate	
1 - 7	51912210	Meter, Input	
1 - 8	51912220	Meter, Tuning	
1 - 9	*51913000	Bracket, Side; L	
1 - 10	*51910650	Metal, Eyelet	
1 - 11	*51910640	Dial Drum	
1 - 12	*51912660	Bracket, Dial Drum	
1 - 13	*51912650	Bracket, Dial Drum	
1 - 14	*51912500	Bracket, Tuning Shaft	
1 - 15	*51912300	Sleeve, Tuning Shaft	
1 - 16	51912620	Dial Pointer Assy	
1 - 17	*51912740	Plate, Reflecting	
1 - 18	*51912730	Mask, Switch	
1 - 19	51912430	Plate Glass	
1 - 20	*51912250	Bracket, Plate Glass	
1 - 21	51910530	Sash, Side	
1 - 22	51912230	Front Panel	
1 - 23	51912330	Knob, Power Switch	
1 - 24	51912260	Knob, A	
1 - 25	51912320	Knob, Lever; Un-colored	
1 - 26	51912310	Knob, Lever; Colored	
1 - 27	51912270	Knob, B	
1 - 28	51912290	Knob, D	
1 - 29	51912280	Knob, C	
1 - 30	*51912360	Cover, Top	
1 - 31	*51912630	Bracket, Lamp Holder	
1 - 32	51912450	Lamp, Stereo Indicating	
1 - 33	*51912630	Plate, Lamp Holder	
1 - 34	*51912700	Lamp Holder	
1 - 35	*51912440	Lamp Lens	
1 - 36	*51912710	Tuning Shaft	
1 - 37	*51912590	Bracket, Side; R	
1 - 38	*51912350	Panel, Rear	GENERAL EXPORT
	51913790	Panel, Rear	All except GENERAL EXPORT
1 - 39	*51912920	Outlet, AC	GENERAL EXPORT
1 - 40	*51912370	Plate, Bottom	
1 - 41	*51912750	Foot	
1 - 42	*51910490	Cord, AC Power	GENERAL EXPORT
	*51910480	Cord, AC Power	AUSTRALIA
	*51912930	Cord, AC Power	EUROPE
1 - 43	*51911010	Strain Relief, AC Power Cord	All except AUSTRALIA
	*51910500	Strain Relief, AC Power Cord	AUSTRALIA
1 - 44	51912910	Terminal Assy, Push	
1 - 45	*51910370	Holder, Antenna	
1 - 46	*51912880	AM Bar Antenna	
1 - 47	*51910380	Bracket, Antenna	
1 - 48	*51910390	Bushing, Rubber	
1 - 49	*51912900	Terminal Assy, Antenna	
1 - 50	*51912550	B Trans.	
1 - 51	*	Nut, GND	
1 - 52	*51912890	Pin Jack	

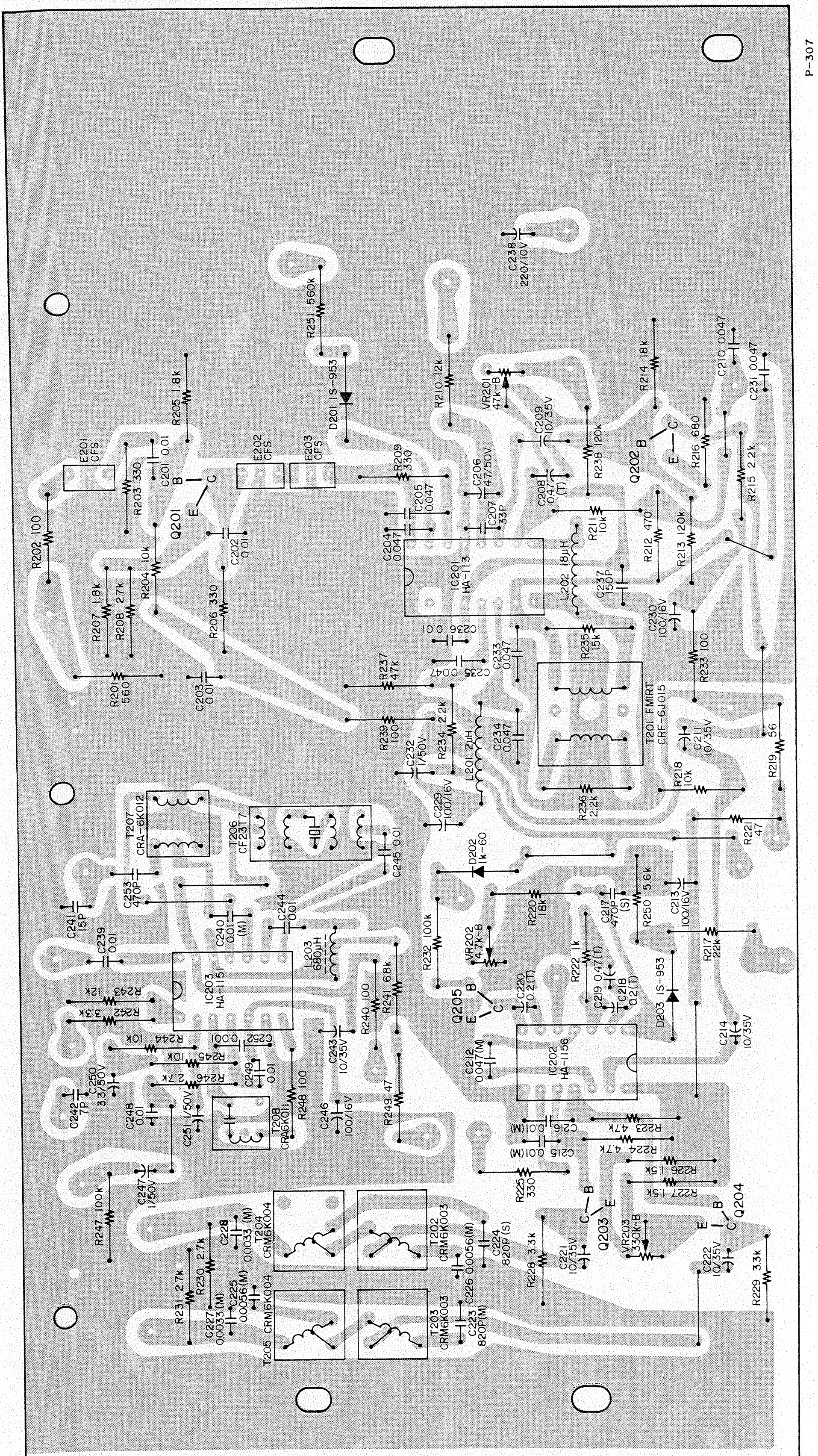
EXPLODED VIEW-2


22
P M3x16
4-P M4x74
P M3x16
22
23
2-P M3x16
P M3x16
24
24
25
25
P M3x16
1
2-P M3x16
2-P M3x16
25
26
2-P M3x16
4
3
2-BTB M3.1x6
4-BTB M3.1x6
2
2-BTB M3.1x6
26
27
4-BTB M3.1x6
2-BTB M3.1x6
4-P M3x6
2-BTB M3.1x6
2-BTB M3.1x6
29
30
5
28
4-P M3x6
2-P M3x6
A
2-BTB M3.1x6
3-BTB M3.1x6
2-BTB M3.1x6
BTB M3.1x6
LWE-3φ
8
6
9
7
4-LWE-4φ
4-N M4
2-BTB M3.1x6
31
7
2-BTB M3.1x6
2-BTB M3.1x6
10
8
6
2-BTB M3.1x6
8
32
11
7
BTB M3.1x6
4-BTB M3.1x6
43
12
33
2-P M3x4
2-P M3x4
42
44
2-P M3x6
3-P M3x8
13
34
8
45
2-P M3x6
14
15
A
35
BTB M3.1x6
2-BTB M3.1x6
36
7
37
2-P M3x14
18
4-P M3x4
16
38
14
17
2-BTB M3.1x6
39
8-P M3x4
19
2-BTB M3.1x6
40
20
4-BTB M3.1x6
21
41
3-LWE-3φ
4-LWE-3φ
4-BTB M3.1x6
3-BTB M3.1x6
E-279

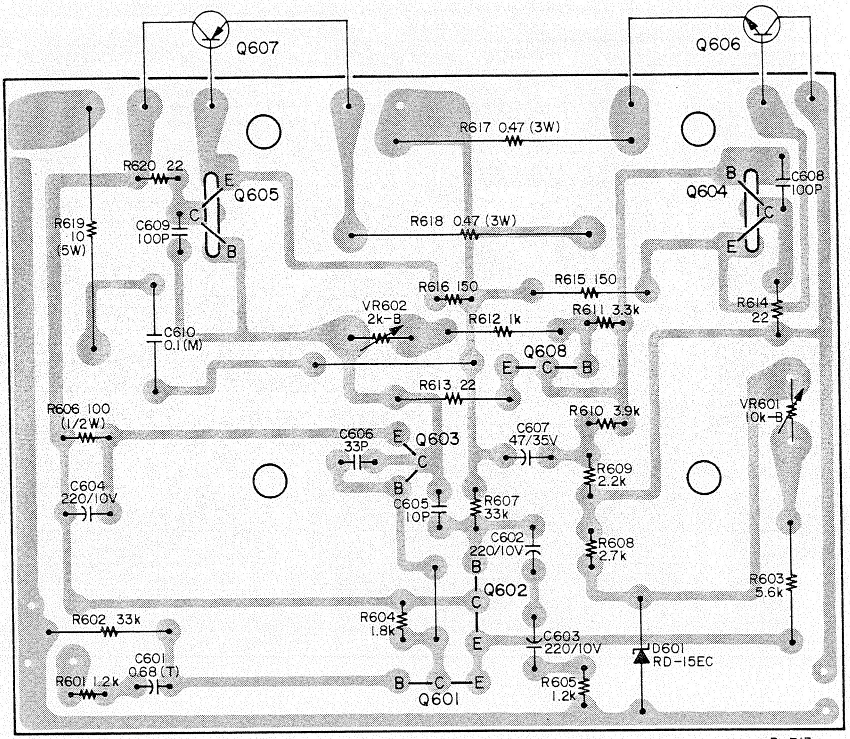
REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
2 - 1	51913050	Transformer, Power	
	51913060	Transformer, Power	
	51913070	Transformer, Power	
2 - 2	*51913420	Capacitor, Elec	
2 - 3	*51912570	Bracket, PROTECTOR PC Board Assy.	
2 - 4	51913480	PC Board Assy, PROTECTOR	
2 - 5	*51912380	Chassis, Transformer	
2 - 6	*51912610	Bracket, RECTIFIER PC Board Assy.	
2 - 7	*51910710	Bushing, Rubber; M10	
2 - 8	*51910390	Bushing, Rubber; M9	
2 - 9	*51910420	Fuse Holder	
2 - 10	*51912470	Fuse; 4.0A	GENERAL EXPORT (100-117V)
	51912460	Fuse; 3.0A	GENERAL EXPORT (220-240V)
2 - 11	*51913850	PC Board Assy., RECTIFIER	
2 - 12	*51912410	Frame, Side	
2 - 13	51912950	Power Switch	
2 - 14	*51912940	Jack	
2 - 15	51913040	Switch, Rotary	
2 - 16	51912960	Switch, Rotary	
2 - 17	51913030	Var. Res.; 50k ohm (A)	
2 - 18	*51912340	Frame, Front	
2 - 19	*51913830	PC Board Assy., TONE CONTROL	
2 - 20	*51912420	Bracket, Var. Res.	
2 - 21	*51913820	PC Board Assy., SWITCH/MIC AMPL.	
2 - 22	*51913210	Transistor; 2SB536	
2 - 23	*51913220	Transistor; 2SB539	
2 - 24	*51913270	Transistor; 2SD381	
2 - 25	*51913260	Transistor; 2SD287	
2 - 26	*51912540	Heat Sink	
2 - 27	51913860	PC Board Assy., MAIN AMPL.	
2 - 28	*51913860	PC Board Assy., MAIN AMPL.	
2 - 29	51912870	FM Front-end	
2 - 30	*51910610	Pulley	
2 - 31	*51912390	Chassis, Front-end	
2 - 32	*51913760	Switch, Slide	GENERAL EXPORT
2 - 33	*51913290	Capacitor, Mylar; 0.0047 mfd	GENERAL EXPORT
2 - 34	*51912400	Frame, Center	
2 - 35	*51910720	String, Dial	
2 - 36	*51910320	Spring, Dial	
2 - 37	*51912410	Frame, Side	
2 - 38	*51913890	Bracket, PRE-AMPL. PC Board; B	
2 - 39	*51912600	Bracket, PRE-AMPL. PC Board; A	
2 - 40	*51913810	PC Board Assy., PRE-AMPL.	
2 - 41	51913870	PC Board Assy., TUNER	
2 - 42	51912490	Fuse; 2A	All except EUROPE
	*51912510	Fuse; 2AT	EUROPE
2 - 43	51912480	Fuse; 5A	All except EUROPE
	*51912530	Fuse; 4AT	EUROPE
2 - 44	51912500	Fuse; 200mAT	
2 - 45	*51910950	Voltage Selector	GENERAL EXPORT
	51014660	Operating Manual	

1-2. PC BOARD (Diagram)

TUNER


P-307
C238 220/10V
R251 560k
D201 1S-953
R205 1.8k
R210 12k
VR201 47k-B
R214 18k
C210 0.047
C231 0.047
E201 CFS
C201 0.01
R203 330
E202 CFS
E203 CFS
R209 330
C209 10/35V
C206 47/50V
R238 120k
Q202 B E C
R216 680
R215 2.2k
Q201 B E C
C205 0.047
C208 0.47(T)
C207 33P
R202 100
C202 0.01
C204 0.047
IC201 HA-113
R211 10k
R212 470
R213 120k
R204 10k
R207 1.8k
R208 2.7k
R206 330
L202 18μH
C237 150P
C230 100/16V
C236 0.01
R235 15k
C233 0.047
C235 0.047
R233 100
R201 560
C203 0.01
R237 47k
T201 FMIRT CRF-6J015
R239 100
R234 2.2k
L201 2μH
C234 0.047
C232 1/50V
C211 10/35V
R219 56
R218 10k
C229 100/16V
R236 2.2k
T207 CRA-6K012
T206 CF23T7
R221 47
D202 1k-60
C245 0.01
C253 470P
C241 15P
C244 0.01
R220 18k
C217 470P (S)
R250 5.6k
C213 100/16V
C239 0.01
C240 0.01 (M)
L203 680μH
R232 100k
VR202 4.7k-B
R222 1k
R217 22k
C219 0.47(T)
C218 0.2(T)
C220 0.2(T)
D203 1S-953
R243 12k
IC203 HA-1151
R241 6.8k
R240 100
Q205 B C E
R242 3.3k
R244 10k
C252 0.001
C214 10/35V
R245 10k
C243 10/35V
C212 0.047(M)
IC202 HA-1156
C250 3.3/50V
R246 2.7k
C249 0.01
C242 7P
C248 0.01
R248 100
R249 47
T208 CRA6K011
C246 100/16V
C251 1/50V
C216 0.01(M)
R223 4.7k
C215 0.01(M)
R224 4.7k
R226 1.5k
C247 1/50V
R225 330
R227 1.5k
R247 100k
Q203 C B E
Q204 E B C
C228 0.0033 (M)
T204 CRM6K004
T202 CRM6K003
C224 820P (S)
R228 3.3k
C221 10/35V
VR203 330k-B
C222 10/35V
R230 2.7k
R231 2.7k
C225 0.0056(M)
C226 0.0056(M)
R229 3.3k
C227 0.0033 (M)
T205 CRM6K004
T203 CRM6K003
C223 820P(M)

MAIN AMPL. (Left ch.)


Q607
Q606
R617 0.47 (3W)
R620 22
Q605
R619 10 (5W)
C609 100P
R618 0.47 (3W)
C608 100P
Q604
R616 150
R615 150
VR602 2k-B
R612 1k
R611 3.3k
R614 22
C610 0.1 (M)
Q608
R613 22
R606 100 (1/2W)
C606 33P
Q603
C607 47/35V
R610 3.9k
VR601 10k-B
R609 2.2k
C604 220/10V
C605 10P
R607 33k
C602 220/10V
R608 2.7k
Q602
R603 5.6k
R602 33k
R604 1.8k
C603 220/10V
D601 RD-15EC
C601 0.68 (T)
R601 1.2k
Q601
R605 1.2k

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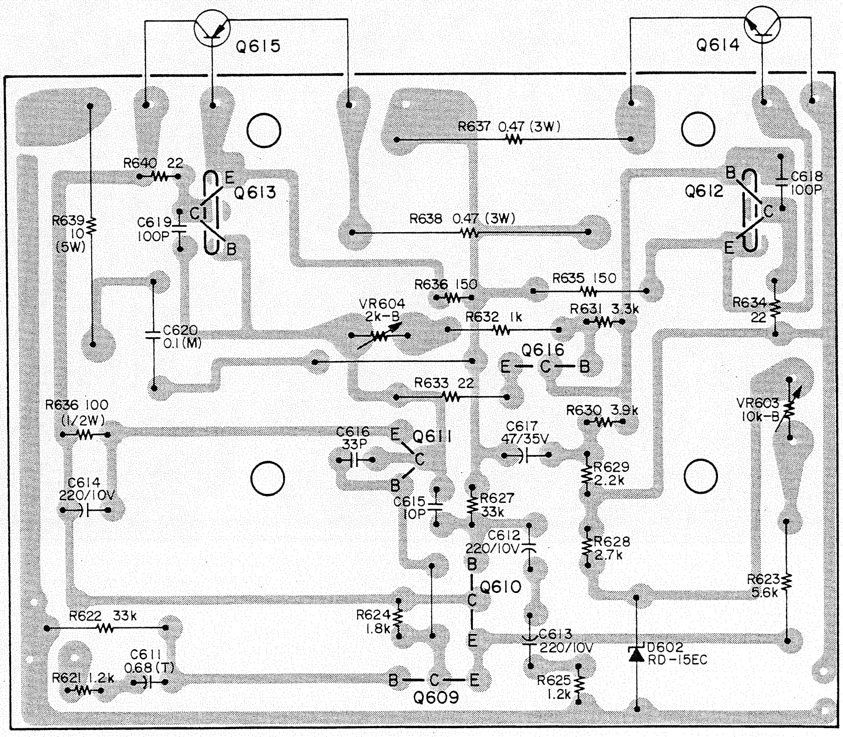
MAIN AMPL. (Right ch.)


Q615
Q614
R637 0.47 (3W)
R640 22
Q613
R639 10 (5W)
C619 100P
R638 0.47 (3W)
C618 100P
Q612
R636 150
R635 150
VR604 2k-B
R632 1k
R631 3.3k
R634 22
C620 0.1 (M)
Q616
R633 22
R636 100 (1/2W)
C616 33P
Q611
C617 47/35V
R630 3.9k
VR603 10k-B
R629 2.2k
C614 220/10V
C615 10P
R627 33k
C612 220/10V
R628 2.7k
Q610
R623 5.6k
R622 33k
R624 1.8k
C613 220/10V
D602 RD-15EC
C611 0.68 (T)
R621 1.2k
Q609
R625 1.2k

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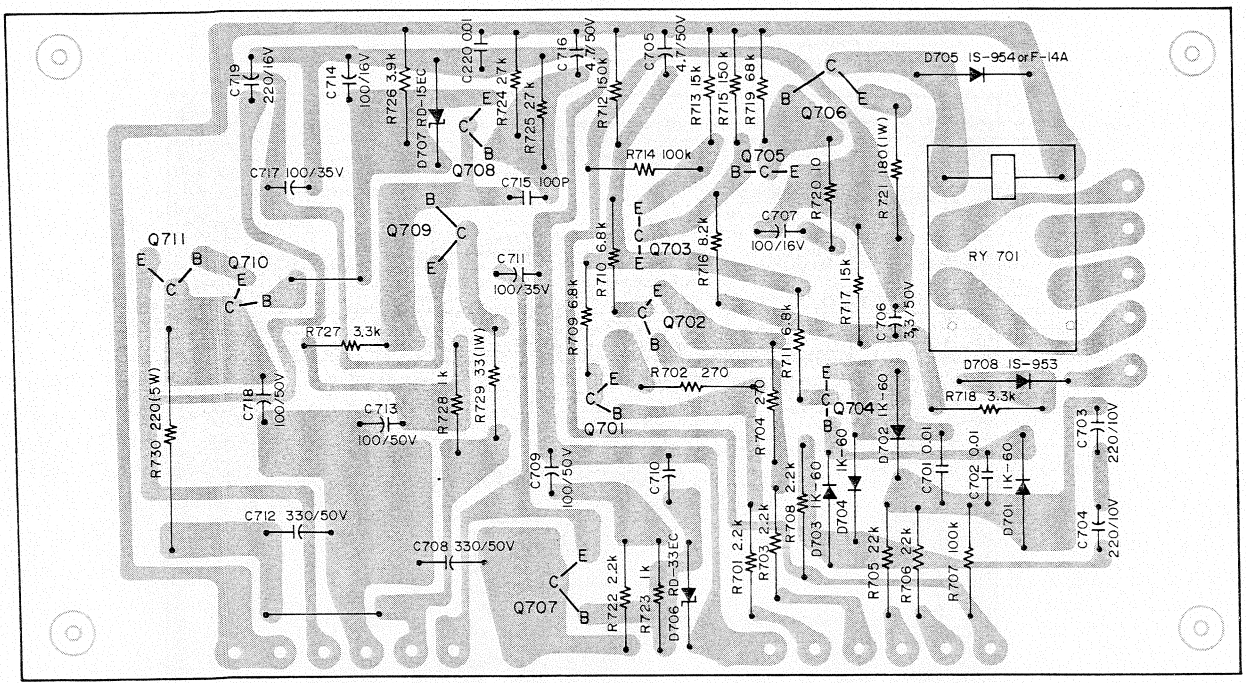
PROTECTOR


C719 220/16V
C714 100/16V
R726 3.9k
D707 RD-15EC
C220 0.01
R724 27k
R725 27k
C716 4.7/50V
R712 150k
C705 4.7/50V
R713 15k
R715 150k
R719 68k
D705 IS-954 or F-14A
Q706
Q708
R714 100k
Q705
B-C-E
R721 180(1W)
C717 100/35V
C715 100P
R720 10
C707 100/16V
Q711
Q710
Q709
C711 100/35V
R710 6.8k
Q703
R716 8.2k
R717 15k
C706 3.3/50V
RY 701
R727 3.3k
R709 6.8k
Q702
R711 6.8k
R728 1k
R729 33(1W)
R702 270
D708 IS-953
C718 100/50V
R730 220(5W)
C713 100/50V
Q701
R704 270
Q704
R718 3.3k
IK-60
C703 220/10V
C709 100/50V
C710
D702
D703
D704
C701 0.01
C702 0.01
D701
C712 330/50V
C708 330/50V
R708 2.2k
R701 2.2k
R703 2.2k
R705 22k
R706 22k
R707 100k
C704 220/10V
Q707
R722 2.2k
R723 1k
D706 RD-33EC

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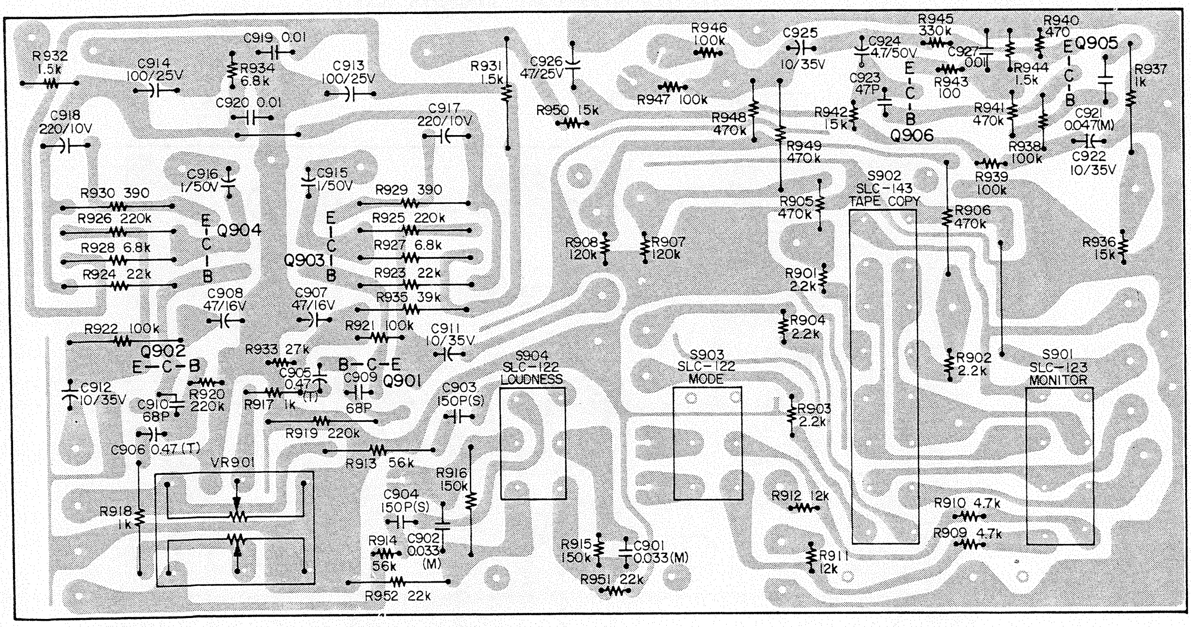
SWITCH/MIC AMPL.


R932 1.5k
C919 0.01
C914 100/25V
R934 6.8k
C913 100/25V
R931 1.5k
C926 47/25V
R946 100k
C925 10/35V
C924 4.7/50V
R945 330k
C927 0.01
R940 470
Q905
R937 1k
C920 0.01
C917 220/10V
R947 100k
C923 47P
R943 100
R944 1.5k
C918 220/10V
R950 15k
R948 470k
R942 15k
Q906
R941 470k
C921 0.047(M)
R938 100k
C922 10/35V
R949 470k
R939 100k
C916 1/50V
C915 1/50V
R930 390
R929 390
S902 SLC-143 TAPE COPY
R905 470k
R906 470k
R926 220k
Q904
R925 220k
R928 6.8k
Q903
R927 6.8k
R908 120k
R907 120k
R936 15k
R924 22k
R923 22k
R901 2.2k
C908 47/16V
C907 47/16V
R935 39k
R922 100k
R921 100k
C911 10/35V
R904 2.2k
Q902
E-C-B
R933 27k
B-C-E
Q901
S904 SLC-122 LOUDNESS
S903 SLC-122 MODE
R902 2.2k
S901 SLC-123 MONITOR
C905 0.47(T)
C909 68P
C912 10/35V
C910 68P
R920 220k
R917 1k
C903 150P(S)
R903 2.2k
C906 0.47(T)
R919 220k
R913 56k
VR901
R916 150k
R918 1k
C904 150P(S)
R912 12k
R910 4.7k
R909 4.7k
R914 56k
C902 0.033(M)
R915 150k
C901 0.033(M)
R911 12k
R951 22k
R952 22k

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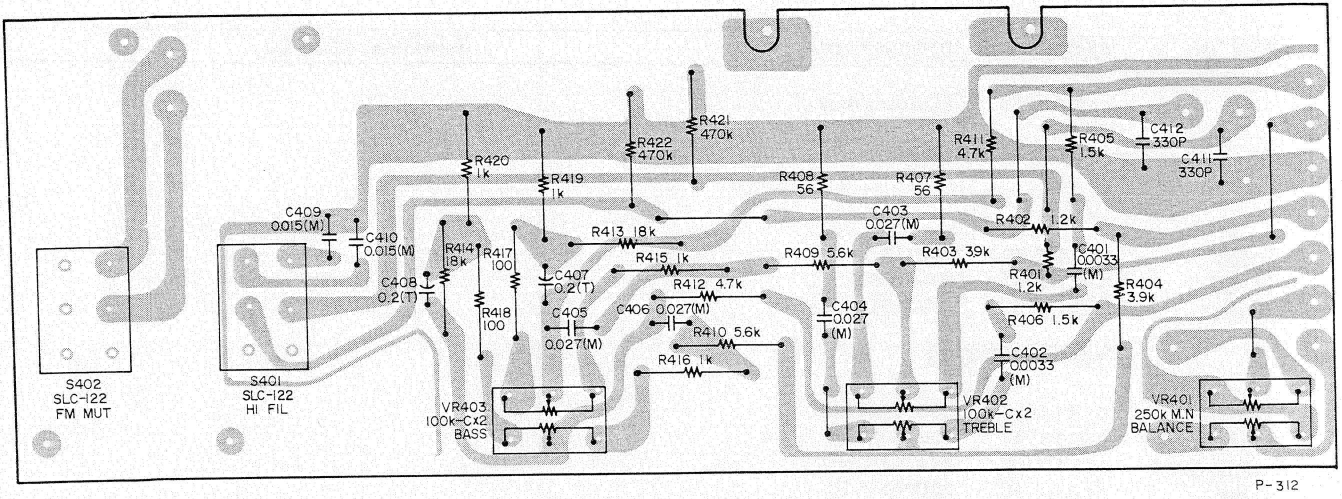
TONE CONTROL


R421 470k
R422 470k
R420 1k
R419 1k
R411 4.7k
R405 1.5k
C412 330P
C411 330P
R408 56
R407 56
C409 0.015(M)
C410 0.015(M)
C403 0.027(M)
R402 1.2k
R413 18k
R414 18k
R417 100
C407 0.2(T)
R415 1k
R409 5.6k
R403 39k
C401 0.0033 (M)
R401 1.2k
R404 3.9k
C408 0.2(T)
R412 4.7k
C404 0.027 (M)
R418 100
C405 0.027(M)
C406 0.027(M)
R410 5.6k
R406 1.5k
C402 0.0033 (M)
R416 1k
S402 SLC-122 FM MUT
S401 SLC-122 HI FIL
VR403 100k-Cx2 BASS
VR402 100k-Cx2 TREBLE
VR401 250k M.N BALANCE

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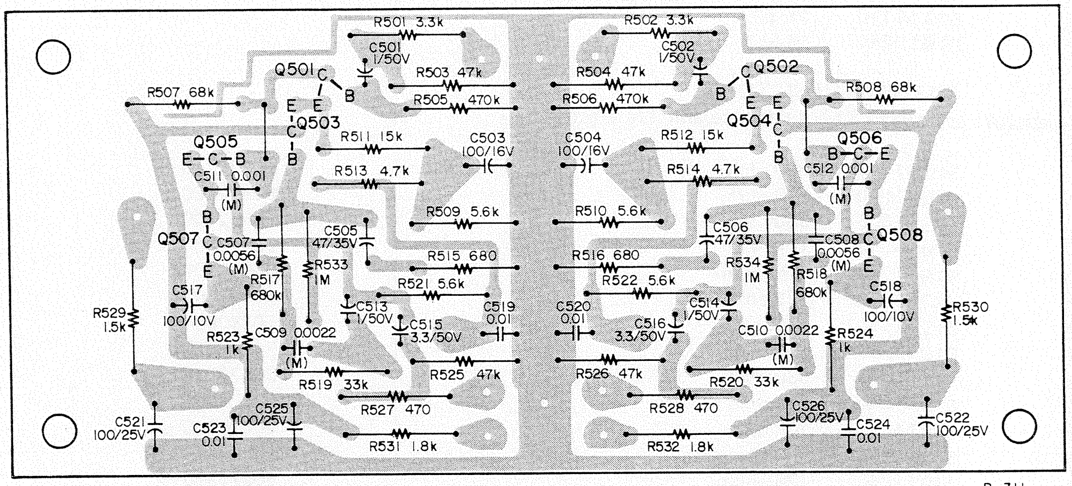
PRE-AMPL.


R501 3.3k
R502 3.3k
C501 1/50V
C502 1/50V
Q501 C B
Q502 C B
R503 47k
R504 47k
R507 68k
R508 68k
R505 470k
R506 470k
E E
Q503 C B
Q504 C B
Q505 E-C-B
Q506 B-C-E
R511 15k
R512 15k
C503 100/16V
C504 100/16V
R513 4.7k
R514 4.7k
C511 0.001 (M)
C512 0.001 (M)
R509 5.6k
R510 5.6k
Q507 B C E
Q508 B C E
C507 0.0056 (M)
C508 0.0056 (M)
C505 47/35V
C506 47/35V
R515 680
R516 680
R533 1M
R534 1M
R517 680k
R518 680k
R521 5.6k
R522 5.6k
C517 100/10V
C518 100/10V
R529 1.5k
R530 1.5k
C513 1/50V
C514 1/50V
C515 3.3/50V
C516 3.3/50V
C519 0.01
C520 0.01
R523 1k
R524 1k
C509 0.0022 (M)
C510 0.0022 (M)
R525 47k
R526 47k
R519 33k
R520 33k
C525 100/25V
C526 100/25V
R527 470
R528 470
C521 100/25V
C522 100/25V
C523 0.01
C524 0.01
R531 1.8k
R532 1.8k

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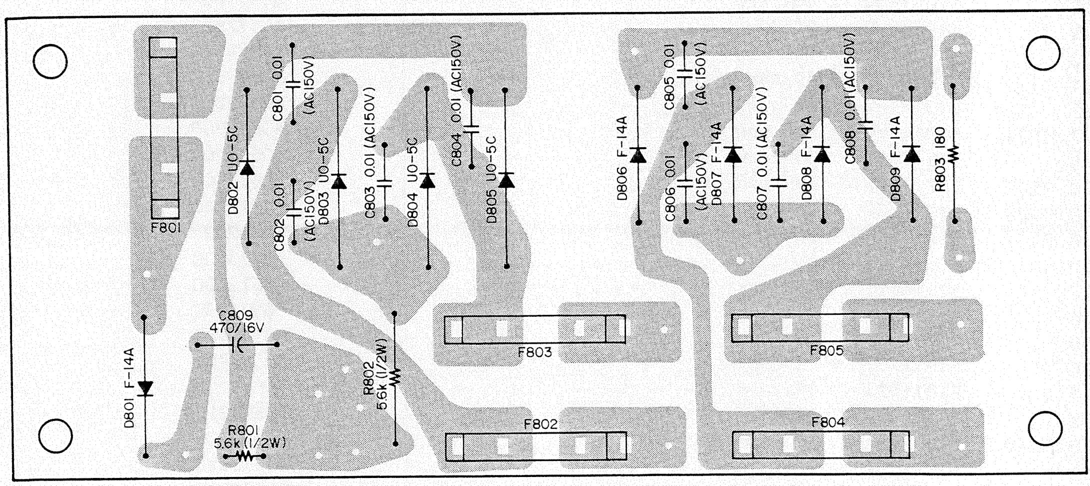
RECTIFIER


F801
C801 0.01 (AC150V)
D802 U0-5C
C802 0.01 (AC150V)
D803 U0-5C
C803 0.01 (AC150V)
D804 U0-5C
C804 0.01 (AC150V)
D805 U0-5C
D806 F-14A
C805 0.01 (AC150V)
C806 0.01 (AC150V)
D807 F-14A
C807 0.01 (AC150V)
D808 F-14A
C808 0.01 (AC150V)
D809 F-14A
R803 180
C809 470/16V
D801 F-14A
R802 5.6k (1/2W)
R801 5.6k (1/2W)
F803
F805
F802
F804

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1-2. PC BOARD (Parts List)

TUNER

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
	51913870	PC Board Assy	
	51913140	PC Board	
	IC's		
IC201	51913150	HA-1137W	
IC202	51911100	HA-1156W	
IC203	51913160	HA-1151	
	TRANSISTORS		
Q201	51911030	2SC839(F, H)	
Q202	51911050	2SC900(E, F)	
Q203, Q204	51913180	2SA733(Q, R)	
Q205	51911040	2SC945(P, Q)	
	DIODES		
D201	51913540	1S-953	
D202	51911110	1K-60	
D203	51913540	1S-953	
	CARBON RESISTORS		
All resistors are rated ±5% tolerance and 1/4 watt.			
R201	51911690	560 ohm	50572760
R202	51911640	100 ohm	50572580
R203	51911660	330 ohm	50572700
R204	51911830	10k ohm	50573060
R205	51911750	1.8k ohm	50572880
R206	51911660	330 ohm	50572700
R207	51911750	1.8k ohm	50572880
R208	51913710	2.7k ohm	50572920
R209	51911750	330 ohm	50572700
R210	51911840	12k ohm	50573080
R211	51911830	10k ohm	50573060
R212	51911680	470 ohm	50572740
R213	51911950	120k ohm	50573320
R214	51911860	18k ohm	50573120
R215	51911760	2.2k ohm	50572900
R216	51911700	680 ohm	50572780
R217	51911760	2.2k ohm	50572900
R218	51911830	10k ohm	50573060
R219	51911620	56 ohm	50572520
R220	51911860	18k ohm	50573120
R221	51913770	47 ohm	50572500
R222	51911720	1k ohm	50572820
R223, R224	51911790	4.7k ohm	50572980
R225	51911660	330 ohm	50572700
R226, R227	51911740	1.5k ohm	50572860
R228, R229	51911770	3.3k ohm	50572940
R230, R231	51913710	2.7k ohm	50572920
R232	51911940	100k ohm	50573300
R233	51911640	100 ohm	50572580
R234	51911760	2.2k ohm	50572900
R235	51911850	15k ohm	50573100
R236	51911760	2.2k ohm	50572900
R237	51911910	47k ohm	50573220
R238	51911950	120k ohm	50573320
R239, R240	51911640	100 ohm	50572580
R241	51911810	6.8k ohm	50573020
R242	51911770	3.3k ohm	50572940

REF. NO.	PARTS NO.	DESCRIPTION			FORMER PARTS NO.
R243	51911840	12k ohm			50573080
R244, R245	51911830	10k ohm			50573060
R246	51911710	2.7k ohm			50572920
R247	51911830	10k ohm			50573060
R248	51911640	100 ohm			50572580
R249	51913770	47 ohm			50572500
R250	51911800	5.6k ohm			50573000
R251	51912000	560k ohm			50573480
	CAPACITORS				
C201~C203	51911480	Ceramic	0.01 mfd	50V	
C204, C205	51913480	Ceramic	0.047 mfd	50V	
C206	51913350	Elec.	4.7 mfd	50V	50554080
C207	51913440	Ceramic	33 pfd	50V	
C208	51911520	Tant.	0.47 mfd	35V	
C209	51911270	Elec.	10 mfd	35V	50554510
C210	51913480	Ceramic	0.047 mfd	50V	
C211	51911270	Elec.	10 mfd	35V	50554510
C212	51911230	Mylar	0.04 mfd	50V	
C213	51911310	Elec.	100 mfd	16V	50554200
C214	51911270	Elec.	10 mfd	35V	50554510
C215, C216	51911200	Mylar	0.01 mfd	50V	
C217	51911540	Polyst.	470 pfd	50V	
C218	51911510	Tant.	0.22 mfd	50V	
C219	51911520	Tant.	0.47 mfd	50V	
C220	51911510	Tant.	0.22 mfd	50V	
C221, C222	51911270	Elec.	10 mfd	35V	50554510
C223, C224	51913530	Polyst.	820 pfd	50V	
C225, C226	51913300	Mylar	0.0056 mfd	50V	
C227, C228	51911180	Mylar	0.0033 mfd	50V	
C229, C230	51911310	Elec.	100 mfd	16V	50554200
C231	51913480	Ceramic	0.047 mfd	50V	
C232	51911250	Elec.	1 mfd	50V	50554540
C233~C235	51913480	Ceramic	0.047 mfd	50V	
C236	51911480	Ceramic	0.01 mfd	50V	
C237	51911450	Ceramic	150 pfd	50V	
C238	51911330	Elec.	220 mfd	10V	50554910
C239	51911480	Ceramic	0.01 mfd	50V	
C240	51911200	Mylar	0.01 mfd	50V	
C241	51911410	Ceramic	15 pfd	50V	
C242	51913430	Ceramic	7 pfd	50V	
C243	51911270	Elec.	10 mfd	35V	50554510
C244, C245	51911480	Ceramic	0.01 mfd	50V	
C246	51911310	Elec.	100 mfd	16V	50554200
C247	51911250	Elec.	1 mfd	50V	50554540
C248, C249	51911480	Ceramic	0.01 mfd	50V	
C250	51913340	Elec.	3.3 mfd	50V	50555730
C251	51911250	Elec.	1 mfd	50V	50554540
C252	51913460	Ceramic	0.001 mfd	50V	
C253	51911540	Polyst.	470 pfd	50V	
	VARIABLE RESISTORS				
VR201	51913620	47k ohm			
VR202	51913600	4.7k ohm			
VR203	51913630	330k ohm			
	COILS/TRANSFORMERS				
L201	51912840	Choke Coil, FM 2 uH			
L202	51912830	Choke Coil, FM 18 uH			
L203	51912820	Choke Coil, AM 680 uH			
T201	51912780	FM IFT			

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
T202, T203	51912850	MPX, 19 kHz	
T204, T205	51912860	MPX, 38 kHz	
T206	51912790	AM Ceramic Filter	
T207	51912800	OSC	
T208	51912810	AM IF	
	MISCELLANEOUS		
E201~E203	51910970	Ceramic Filter	

MAIN AMPL. (Left ch.)

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
	51913860	PC Board Assy	
	51913130	PC Board	
	TRANSISTORS		
Q601	51913170	2SA640(E, F)	
Q602	51913170	2SA640(E, F)	
Q603	51913270	2SD381(L, M)	
Q604	51913270	2SD381(L, M)	
Q605	51913210	2SB536(L, M)	
Q606	51913260	2SD287(R, S)	
Q607	51913220	2SB539(R, S)	
	DIODES		
D601	51911140	Zener, RD-15EC	
	RESISTORS **All resistors are rated ±5% tolerance, 1/4 watt and carbon type unless otherwise noted.**		
R601	51911730	1.2k ohm	50572840
R602	51911890	33k ohm	50573180
R603	51911800	5.6k ohm	50573000
R604	51911750	1.8k ohm	50572880
R605	51911730	1.2k ohm	50572840
R606	51911640	100 ohm 1/2W	50574580
R607	51911890	33k ohm	50573180
R608	51913710	2.7k ohm	50572920
R609	51911760	2.2k ohm	50572900
R610	51911780	3.9k ohm	50572960
R611	51911770	3.3k ohm	50572940
R612	51911720	1k ohm	50572820
R613	51911610	22 ohm	50572420
R614	51911610	22 ohm	50572420
R615	51911650	150 ohm	50572620
R616	51911650	150 ohm	50572620
R617	51913640	Cement, 0.47 ohm 3W	
R618	51913640	Cement, 0.47 ohm 3W	
R619	51913650	Cement, 10 ohm 5W	
	CAPACITORS		
C601	51913500	Tant. 0.68 mfd 35V	
C602	51911330	Elec. 220 mfd 10V	50554910

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
C603	51911330	Elec. 220 mfd 10V	50554910
C604	51911330	Elec. 220 mfd 10V	50554910
C605	51911400	Ceramic 10 pfd 50V	
C606	51913440	Ceramic 33 pfd 50V	
C607	51913360	Elec. 47 mfd 35V	50554520
C608	51911440	Ceramic 100 pfd 50V	
C609	51911440	Ceramic 100 pfd 50V	
C610	51911240	Mylar 0.1 mfd 50V	

VARIABLE RESISTORS

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
VR601	51913610	Semi-fixed, 10k ohm - B	
VR602	51913590	Semi-fixed, 2k ohm - B	

MAIN AMPL. (Right ch.)

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
	51913860	PC Board Assy	
	51913130	PC Board	

TRANSISTORS

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
Q609	51913170	2SA640(E, F)	
Q610	51913170	2SA640(E,F)	
Q611	51913270	2SD381(L, M)	
Q612	51913270	2SD381(L, M)	
Q613	51913210	2SB536(L, M)	
Q614	51913260	2SD287(R, S)	
Q615	51913220	2SB539(R, S)	

DIODES

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
D602	51911140	Zener, RD-15EC	

RESISTORS

All resistors are rated ±5% tolerance, 1/4 watt and carbon type unless otherwise noted.

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
R621	51911730	1.2k ohm	50572840
R622	51911890	33k ohm	50573180
R623	51911800	5.6k ohm	50573000
R624	51911750	1.8k ohm	50572880
R625	51911730	1.2k ohm	50572840
R626	51911640	100 ohm 1/2W	50574580
R627	51911890	33k ohm	50573180
R628	51913710	2.7k ohm	50572920
R629	51911760	2.2k ohm	50572900
R630	51911780	3.9k ohm	50572960
R631	51911770	3.3k ohm	50572940
R632	51911720	1k ohm	50572820
R633	51911610	22 ohm	50572420
R634	51911610	22 ohm	50572420
R635	51911650	150 ohm	50572620
R636	51911650	150 ohm	50572620
R637	51913640	Cement, 0.47 ohm 3W	
R638	51913640	Cement, 0.47 ohm 3W	
R639	51913650	Cement, 10 ohm 5W	

REF. NO.	PARTS NO.	DESCRIPTION			FORMER PARTS NO.
	CAPACITORS				
C611	51913500	Tant.	0.68 mfd	35V	
C612	51911330	Elec.	220 mfd	10V	50554910
C613	51911330	Elec.	220 mfd	10V	50554910
C614	51911330	Elec.	220 mfd	10V	50554910
C615	51911400	Ceramic	10 pfd	50V	
C616	51913440	Ceramic	33 pfd	50V	
C617	51913360	Elec.	47 mfd	35V	50554520
C618	51911440	Ceramic	100 pfd	50V	
C619	51911440	Ceramic	100 pfd	50V	
C620	51911240	Mylar	0.1 mfd	50V	
	VARIABLE RESISTORS				
VR603	51913610	Semi-fixed, 10k ohm - B			
VR604	51913590	Semi-fixed, 2k ohm - B			

PROTECTOR

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
	51913840	PC Board Assy	
	51913110	PC Board	
	TRANSISTORS		
Q701, Q702	51911040	2SC945(P)	
Q703	51913180	2SA733(Q), (R)	
Q704, Q705	51911040	2SC945(P)	
Q706	51913250	2SD234	
Q707	51913200	2SB434(Y)	
Q708	51913230	2SC815	
Q709	51913250	2SD234	
Q710	51911040	2SC945(P)	
	DIODES		
D701~D704	51911110	1K-60	
D705	51913560	1S-954 or F-14A	
D706	51913580	Zener, RD-33EC	
D707	51911140	Zener, RD-15EC	
D708	51913540	1S-953	
	RESISTORS **All resistors are rated ±5% tolerance, 1/4 watt and carbon type unless otherwise noted.**		
R701	51911760	2.2k ohm	50572900
R702	51913700	270 ohm	50572680
R703	51911760	2.2k ohm	50572900
R704	51913700	270 ohm	50572680
R705, R706	51911870	22k ohm	50573300
R707	51911940	100k ohm	50572900
R708	51911760	2.2k ohm	50572900
R709~R711	51911810	6.8k ohm	50573020
R712	51911960	150k ohm	50573340
R713	51911850	15k ohm	50573100

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
R714	51911940	100k ohm	50573300
R715	51911960	150k ohm	50573340
R716	51911820	8.2k ohm	50573040
R717	51911850	15k ohm	50573100
R718	51911770	3.3k ohm	50572940
R719	51913720	68k ohm	50573260
R720	51913680	10 ohm	50572340
R721	51911600	180 ohm 1W	50576640
R722	51911760	2.2k ohm	50572900
R723	51911730	1k ohm	50572820
R724, R725	51911880	27k ohm	50573160
R726	51911780	3.9k ohm	50572960
R727	51911770	3.3k ohm	50572940
R728	51911730	1k ohm	50572820
R729	51911590	33 ohm 1W	50576460
R730	51913660	Cement, 220 ohm 5W	50520310
	CAPACITORS		
C701, C702	51911480	Ceramic 0.01 mfd 50V	
C703, C704	51911330	Elec. 220 mfd 10V	50554910
C705	51913350	Elec. 4.7 mfd 50V	50554080
C706	51913340	Elec. 3.3 mfd 50V	50555730
C707	51911310	Elec. 100 mfd 16V	50554570
C708	51913400	Elec. 330 mfd 50V	50554990
C709, C710	51913380	Elec. 100 mfd 50V	50554070
C711	51913370	Elec. 100 mfd 35V	50554630
C712	51913400	Elec. 330 mfd 50V	50554990
C713	51913380	Elec. 100 mfd 50V	50554070
C714	51911310	Elec. 100 mfd 16V	50554200
C715	51911440	Ceramic 100 pfd 50V	
C716	51913350	Elec. 4.7 mfd 50V	50554080
C717	51913370	Elec. 100 mfd 35V	50554630
C718	51913380	Elec. 100 mfd 50V	50554070
C719	51913390	Elec. 220 mfd 16V	50554390
C720	51911480	Ceramic 0.01 mfd 50V	
	RELAY		
RY1	51912770	DC24V	

SWITCH/MIC AMPL.

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
	51913820	PC Board Assy	
	51913090	PC Board	
	TRANSISTORS		
Q901/Q902	51913190	2SA750(UE)	
Q903/Q904	51913240	2SC1222(UE)	
Q905/Q906	51911040	2SC945(P)	
	CARBON RESISTORS **All resistors are rated ±5% tolerance and 1/4 watt.**		
R901/R902	51911760	2.2k ohm	50572900
R903/R904	51911760	2.2k ohm	50572900

REF. NO.	PARTS NO.	DESCRIPTION			FORMER PARTS NO.
R905/R906	51911990	470k ohm			50573460
R907/R908	51911950	120k ohm			50573320
R909/R910	51911790	4.7k ohm			50572980
R911/R912	51911840	12k ohm			50573080
R913/R914	51911920	56k ohm			50573240
R915/R916	51911960	150k ohm			50573340
R917/R918	51911720	1k ohm			50572820
R919/R920	51911970	220k ohm			50573380
R921/R922	51911940	100k ohm			50573300
R923/R924	51911870	22k ohm			50573130
R925/R926	51911970	220k ohm			50573380
R927/R928	51911810	6.8k ohm			50573020
R929/R930	51911670	390 ohm			50572720
R931/R932	51911740	1.5k ohm			50572860
R933	51911880	27k ohm			50573160
R934	51911810	6.8k ohm			50573020
R935	51911900	39k ohm			50573220
R936	51911850	15k ohm			50573100
R937	51911720	1k ohm			50572820
R938, R939	51911940	100k ohm			50573300
R940	51911680	470 ohm			50572740
R941	51911990	470k ohm			50573460
R942	51911850	15k ohm			50573100
R943	51911640	100 ohm			50572580
R944	51911740	1.5k ohm			50572860
R945	51913730	330k ohm			50573420
R946/R947	51911940	100k ohm			50573300
R948/R949	51911990	470k ohm			50573460
R950	51911850	15k ohm			50573100
R951/R952	51911900	22k ohm			50573140
	CAPACITORS				
C901/C902	51913330	Mylar	0.033 mfd	50V	
C903/C904	51913520	Polyst.	150 pfd	50V	
C905/C906	51913510	Tant.	0.47 mfd	35V	
C907/C908	51911280	Elec.	47 mfd	16V	50554010
C909/C910	51913490	Ceramic	68 pfd	50V	
C911/C912	51911270	Elec.	10 mfd	35V	50554510
C913/C914	51911320	Elec.	100 mfd	25V	50554170
C915/C916	51911250	Elec.	1 mfd	50V	50554540
C917/C918	51911330	Elec.	220 mfd	10V	50554910
C919/C920	51911480	Ceramic	0.01 mfd	50V	
C921	51911230	Mylar	0.047 mfd	50V	
C922	51911270	Elec.	10 mfd	35V	50554510
C923	51911430	Ceramic	47 pfd	50V	
C924	51913350	Elec.	4.7 mfd	50V	50554080
C925	51911270	Elec.	10 mfd	35V	50554510
C926	51911290	Elec.	47 mvd	25V	50554490
C927	51911200	Mylar	0.01 mfd	50V	
	VARIABLE RESISTOR				
VR901	51913000	250k ohm - B x 2			
	MISCELLANEOUS				
S901	51912970	Switch, Lever			
S902	51912980	Switch, Lever			
S903, S904	51912990	Switch, Lever			

TONE CONTROL

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
	51913830	PC Board Assy	
	51913100	PC Board	
		CARBON RESISTORS **All resistors are rated ±5% tolerance and 1/4 watt.**	
R401/R402	51911730	1.2k ohm	50572840
R403/R404	51911780	3.9k ohm	50572960
R405/R406	51911740	1.5k ohm	50572860
R407/R408	51911620	56 ohm	50572520
R409/R410	51911800	5.6k ohm	50573000
R411/R412	51911790	4.7k ohm	50572980
R413/R414	51911860	18k ohm	50573120
R415/R416	51911720	1k ohm	50572820
R417/R418	51911640	100 ohm	50572580
R419/R420	51911720	1k ohm	50572820
R421/R422	51911990	470k ohm	50573460
		CAPACITORS	
C401/C402	51911180	Mylar 0.0033 mfd 50V	
C403/C404	51913320	Mylar 0.027 mfd 50V	
C405/C406	51913320	Mylar 0.027 mfd 50V	
C407/C408	51911510	Tant. 0.22 mfd 50V	
C409/C410	51913310	Mylar 0.015 mfd 50V	
C411/C412	51913450	Ceramic 330 pfd 50V	
		VARIABLE RESISTORS	
VR401	51913020	250k ohm - MN	
VR402, VR403	51913010	100k ohm - C	
		MISCELLANEOUS	
S401, S402	51912990	Switch, Lever	

PRE-AMPL.

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
	51913810	PC Board Assy	
	51913080	PC Board	
		TRANSISTORS	
Q501/Q502	51913190	2SA750(UE)	
Q503/Q504	51913190	2SA750(UE)	
Q505/Q506	51913240	2SC1222(UE)	
Q507/Q508	51913240	2SC1222(UE)	
		CARBON RESISTORS **All resistors are rated ±5% tolerance and 1/4 watt.**	
R501/R502	51911770	3.3k ohm	50572940
R503/R504	51911910	47k ohm	50573220
R505/R506	51911990	470k ohm	50573460
R507/R508	51913720	68k ohm	50573260
R509/R510	51911800	5.6k ohm	50573000

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
R511/R512	51911850	15k ohm	50573100
R513/R514	51911790	4.7k ohm	50572980
R515/R516	51911700	680 ohm	50572780
R517/R518	51913740	680k ohm	50573500
R519/R520	51911890	33k ohm	50573180
R521/R522	51911800	5.6k ohm	50573000
R523/R524	51911720	1k ohm	50572820
R525/R526	51911910	47k ohm	50573220
R527/R528	51911680	470 ohm	50572740
R529/R530	51911740	1.5k ohm	50572860
R531/R532	51911750	1.8k ohm	50572880
R533/R534	51912010	1M ohm	50573540
	CAPACITORS		
C501/C502	51911250	Elec. 1 mfd 50V	50554540
C503/C504	51911310	Elec. 100 mfd 16V	50554200
C505/C506	51913360	Elec. 47 mfd 35V	50554520
C507/C508	51913300	Mylar 0.0056 mfd 50V	
C509/C510	51913280	Mylar 0.0022 mfd 50V	
C511/C512	51911160	Mylar 0.001 mfd 50V	
C513/C514	51911250	Elec. 1 mfd 50V	50554540
C515/C516	51913340	Elec. 3.3 mfd 50V	50555730
C517/C518	51911300	Elec. 100 mfd 10V	50554570
C519/C420	51911480	Ceramic 0.01 mfd 50V	
C521/C522	51911320	Elec. 100 mfd 25V	50554170
C523/C524	51911480	Ceramic 0.01 mfd 50V	
C525/C526	51911320	Elec. 100 mfd 25V	50554170

RECTIFIER

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
	51913850	PC Board Assy	
	51913120	PC Board	
	DIODES		
D801	51911150	F-14A	
D802~D805	51913550	VO-5C	
D806~D809	51911150	F-14A	
	CARBON RESISTORS		
R801, R802	51913670	5.6k ohm 1/2W 5%	50575000
R803	51913690	180 ohm 1/4W 5%	50572640
	CAPACITORS		
C801~C808	51913470	Ceramic 0.01 mfd 150V	50554400
C809	51913410	Elec. 470 mfd 16V	
	MISCELLANEOUS		
	51913750	Holder, Fuse (10 used)	

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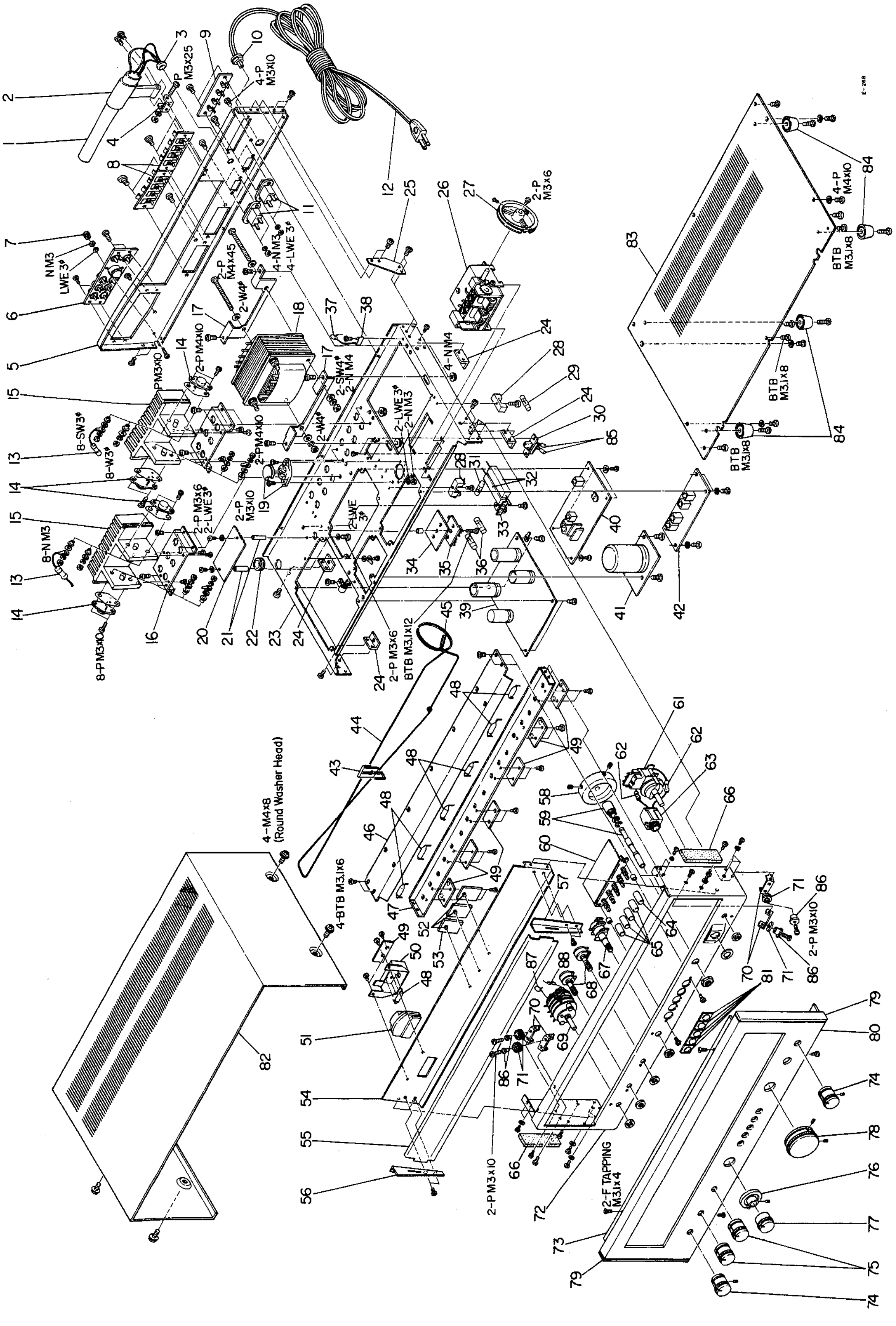
2. AG-2700 SECTION

2-1. EXPLODED VIEWS AND PARTS LIST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85
86
87
88
P M3x25
4-P M3X10
NM3
LWE3φ
2-P M4x45
2-W4φ
4-NM3φ
4-LWE 3φ
2-PM4X10
PM3X10
8-SW3φ
8-W3φ
2-SW4φ
2-N M4
2-W4φ
2-PM4X10
2-P M3x6
2-LWE3φ
2-P M3X10
8-N M3
8-PM3X10
2-LWE3φ
2-N M3
2-LWE 3φ
4-NM4
2-P M3x6
2-P M3x6
BTB M3.1x12
4-P M4x10
BTB M3.1x8
BTB M3.1x8
BTB M3.1x8
4-M4x8 (Round Washer Head)
4-BTB M3.1x6
2-P M3X10
2-P M3x10
2-P M3x10
2-F TAPPING M3.1x4
E-288

Note: Unless otherwise noted, all screws without hardware coding exploded views are tapping screws of M3 x 6 dimensions.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1	51910360	AM Bar Antenna	
2	51910370	Holder, Antenna	
3	*51910390	Bushing, Rubber	
4	51910380	Bracket, Antenna	
5	*51910140	Panel, Rear (RCA)	
6	*51910700	Pin Jack	
7	*	Nut, GND	
8	51910690	Terminal Assy, Push	
9	51910680	Terminal Assy, 4P	
10	*51911010	Strain Relief, AC Power Cord	GENERAL EXPORT
10	51910500	Strain Relief, AC Power Cord	AUSTRALIA
11	*51912920	Outlet, AC	
12	*51910490	Cord, AC Power	GENERAL EXPORT
12	51910480	Cord, AC Power	AUSTRALIA
13	*51911580	Resistor, 0.47 ohm 2W	
14	*51911020	Transistor	
15	*51910940	Heat Sink	
16	*51910170	Bracket, Heat Sink	
17	*51910180	Bracket, Power Transformer	
18	51910520	Transformer, Power	GENERAL EXPORT
18	51910510	Transformer, Power	AUSTRALIA
19	*51910950	Voltage Selector	GENERAL EXPORT
20	51910930	PC Board Assy, INPUT/OUTPUT	
21	*	Post, Brass; 20 mm	
22	*51910710	Bushing, Rubber	
23	*51910120	Chassis, Main	
24	*51910940	Bracket, Cabinet	
25	*51910230	Plate, Reinforcing	
26	51910310	FM Front-end	
27	*51910610	Pulley	
28	*51910420	Holder, Fuse	
29	51910460	Fuse, 1A	
30	*51910960	Switch, Slide	
31	51910450	Fuse, 0.5A	
32	*51911570	Resistor, 33 ohm 10W	
33	*51910250	Terminal Strip, 1L-1P	
34	*51910440	Plate, Insulator	
35	*51910420	Holder, Fuse; 2P	
36	51910470	Fuse, 2A	
37	*51911390	Capacitor, Ceramic 2 pfd	
38	*51910250	Terminal Strip	
39	51910890	PC Board Assy, AUDIO	
40	51910900	PC Board Assy, FM MPX	
41	51910920	PC Board Assy, POWER SUPPLY	
42	51910910	PC Board Assy, AM	
43	51912020	Dial Pointer Assy	
44	*51910720	String, Dial	
45	51910320	Spring, Dial	
46	*51910160	Plate, Reflecting	
47	*51910150	Plate, Lamp	
48	51910410	Lamp	
49	*51910400	PC Board, Lamp	
50	*51910210	Plate, Meter	
51	51910670	Meter, Signal	
52	51910340	LED	
53	*51910350	Insulator, LED	
54	*51910020	Plate, Back	
55	51910040	Dial, Scale	
56	*51910030	Plate, Blind, Left	
57	*51910030	Plate, Blind, Right	
58	*51910570	Flywheel	
59	*51910560	Spacer, Shaft	
60	51910880	PC Board Assy, PUSH SWITCH	

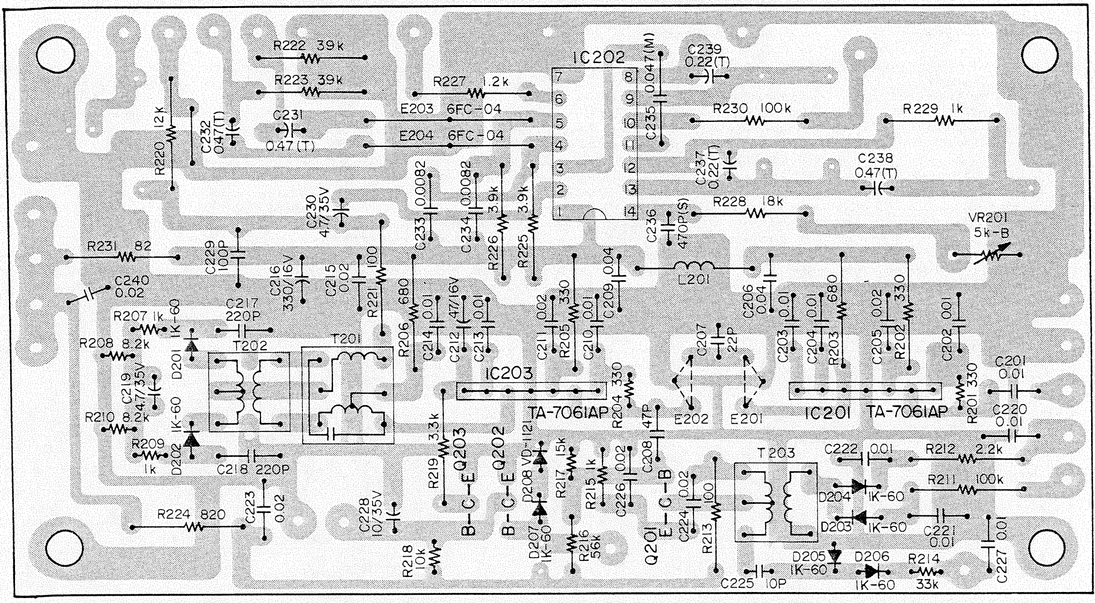
(Continued on page 22)

(Continued from page 21)

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
61	51910270	Switch, Rotary	
62	*51910600	Resistor, 180 ohm 1W	
63	*51910260	Jack PHONES	
64	*51910630	Push Button, Un-colored	
65	*51910620	Push Button, Colored	
66	*51910550	Insulator, Black	
67	51910290	Var. Res., 100k ohm B x 2/200k ohm W CT	
68	51910280	Var. Res., 50k ohm x 2	
69	51910300	Switch, Rotary	
70	*51910220	Plate, Dial Drum	
71	*51910640	Dial Drum	
72	*51910110	Chassis, Front	
73	51910010	Panel, Front	
74	51910090	Knob, D	
75	51910050	Knob, A	
76	51910070	Knob, B2	
77	51910060	Knob, B1	
78	51910080	Knob, C	
79	*51910530	Sash, Side	
80	*51910600	Acrylic Face Plate	
81	*51910540	Spacer	
82	51910100	Cover	
83	*51910130	Plate, Bottom	
84	*51910660	Plastic Foot	
85	*51911180	Capacitor, Mylar 0.0033 mfd	GENERAL EXPORT
86	*51910650	Metal Eyelet	
87	*51911480	Capacitor, Ceramic 0.01 mfd	
88	*51911710	Resistor, 820 ohm 1/4W	
	5105100	Operating Manual	

2-1. PC BOARD (Diagram)

FM MPX PC BOARD


R222 39k
R223 39k
R227 1.2k
IC202
C239 0.22(T)
C235 0.047(M)
R230 100k
R229 1k
R220 12k
C232 0.47(T)
C231 0.47(T)
E203 6FC-04
E204 6FC-04
C237 0.22(T)
C238 0.47(T)
C230 4.7/35V
C233 0.0082
C234 0.0082
R226 3.9k
R225 3.9k
C236 470P(S)
R228 18k
VR201 5k-B
R231 82
C229 100P
C216 330/16V
C215 0.02
R221 100
C240 0.02
R206 680
C214 0.01
C212 47/16V
C213 0.01
C211 0.02
R205 330
C210 0.01
C209 0.04
L201
C206 0.04
C203 0.01
C204 0.01
R203 680
C205 0.02
R202 330
C202 0.01
R207 1k
D201 1K-60
C217 220P
T202
T201
R208 8.2k
C219 0.47/35V
R210 8.2k
D202 1K-60
R209 1k
C218 220P
IC203
TA-7061AP
R204 330
C208 47P
C207 22P
E202
E201
IC201 TA-7061AP
R201 330
C201 0.01
C220 0.01
R219 3.3k
Q203 B-C-E
Q202 B-C-E
D208 VD-1121
R217 15k
R215 1k
C226 0.02
Q201 E-C-B
C224 0.02
R213 100
T203
C222 0.01
R212 2.2k
R211 100k
D204 1K-60
D203 1K-60
C221 0.01
C227 0.01
R224 820
C223 0.02
C228 10/35V
R218 10k
D207 1K-60
R216 56k
D205 1K-60
D206 1K-60
R214 33k
C225 10P

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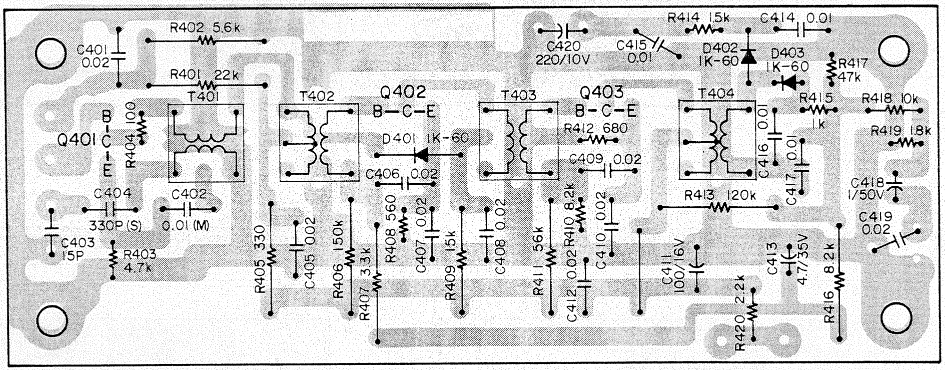
AM PC BOARD


R402 5.6k
C401 0.02
R401 22k
T401
Q401 B-C-E
R404 100
T402
Q402 B-C-E
D401 1K-60
T403
Q403 B-C-E
R412 680
T404
C420 220/10V
C415 0.01
R414 15k
C414 0.01
D402 1K-60
D403 1K-60
R417 47k
R415 1k
R418 10k
R419 18k
C416 0.01
C417 0.01
C418 1/50V
C419 0.02
C404 330P(S)
C402 0.01(M)
C403 15P
R403 4.7k
R405 330
C405 0.02
R406 150k
R407 3.3k
R408 560
C407 0.02
R409 15k
C408 0.02
C406 0.02
R411 56k
R410 8.2k
C409 0.02
C410 0.02
C412 0.02
C411 100/16V
R413 120k
R420 2.2k
C413 4.7/35V
R416 8.2k

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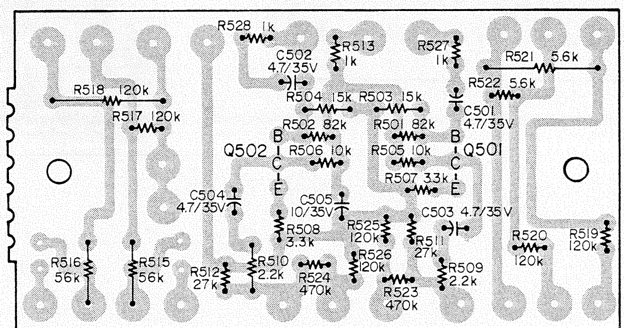
INPUT/OUTPUT PC BOARD


R528 1k
C502 4.7/35V
R513 1k
R527 1k
R521 5.6k
R522 5.6k
R518 120k
R517 120k
R504 15k
R503 15k
C501 4.7/35V
R502 82k
R501 82k
Q502 B-C-E
R506 10k
R505 10k
Q501 B-C-E
R507 33k
C504 4.7/35V
C505 10/35V
C503 4.7/35V
R508 3.3k
R525 120k
R511 27k
R520 120k
R519 120k
R516 56k
R515 56k
R512 27k
R510 2.2k
R524 470k
R526 120k
R523 470k
R509 2.2k

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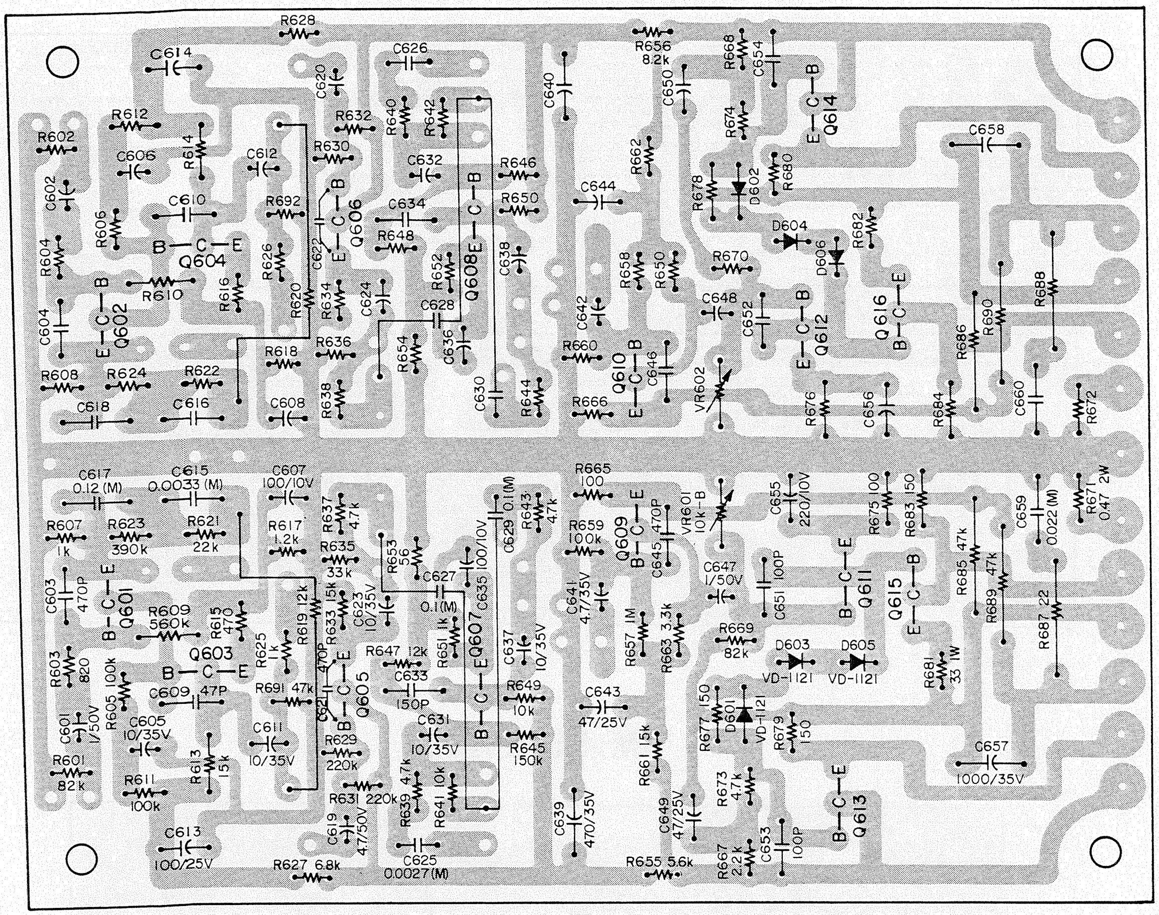
AUDIO PC BOARD


R628
C614
C626
C620
R656
8.2k
R668
C654
C650
C640
R612
R632
R640
R642
R674
Q614
E—C—B
R602
C606
R614
C612
R630
C632
R646
R662
R680
D602
C658
C602
C610
R692
Q606
E—C—B
C634
R650
C644
R678
R606
B—C—E
Q604
R648
D604
R682
R604
R626
C622
R652
Q608
E—C—B
C638
R670
D606
R610
R616
R620
R634
C624
C628
R658
R650
C648
C642
Q616
B—C—E
R688
C604
Q602
E—C—B
R636
R654
C636
R660
C646
C652
Q612
E—C—B
R686
R690
R608
R624
R622
R618
C630
Q610
E—C—B
VR602
R676
C656
R684
C660
R672
C618
C616
C608
R638
R644
R666
C617
0.12 (M)
C615
0.0033 (M)
C607
100/10V
R665
100
C655
220/10V
R675 100
R683 150
R671
0.47 2W
R607
1k
R623
390k
R621
22k
R617
1.2k
R637
4.7k
R643
4.7k
C629 0.1(M)
R659
100k
Q609
B—C—E
C645 470P
VR601
10k-B
C659
0.022 (M)
R635
33k
R653
56
C635 100/10V
C647
1/50V
C651 100P
Q611
B—C—E
R685 47k
R689 47k
C603
470P
Q601
B—C—E
R609
560k
R615
470
R619 12k
R633 15k
C623
10/35V
C627
0.1(M)
C641
4.7/35V
R657 1M
R663 3.3k
Q615
E—C—B
R687 22
R625
1k
Q603
B—C—E
R647 12k
R651 1k
Q607
B—C—E
C637
10/35V
R669
82k
D603
D605
R603
820
R605 100k
C609 47P
C621 470P
R691 47k
Q605
B—C—E
C633
150P
R649
10k
C643
47/25V
VD-1121
VD-1121
R681
33 1W
C601
1/50V
C605
10/35V
C611
10/35V
R629
220k
C631
10/35V
R645
150k
R661 15k
R677 150
D601
VD-1121
R679
150
C657
1000/35V
R601
82k
R611
100k
R613
15k
R631 220k
R639 4.7k
R641 10k
C639
470/35V
C649
47/25V
R673
4.7k
Q613
B—C—E
C613
100/25V
C619
47/50V
C625
0.0027(M)
R627 6.8k
R655 5.6k
R667
2.2k
C653
100P

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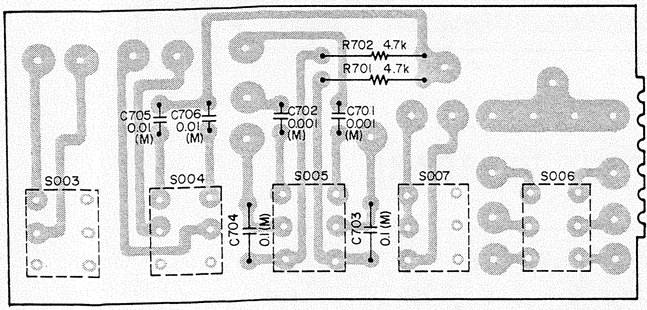
PUSH SWITCH PC BOARD


R702 4.7k
R701 4.7k
C705
0.01
(M)
C706
0.01
(M)
C702
0.001
(M)
C701
0.001
(M)
S003
S004
S005
S007
S006
C704
0.1(M)
C703
0.1(M)

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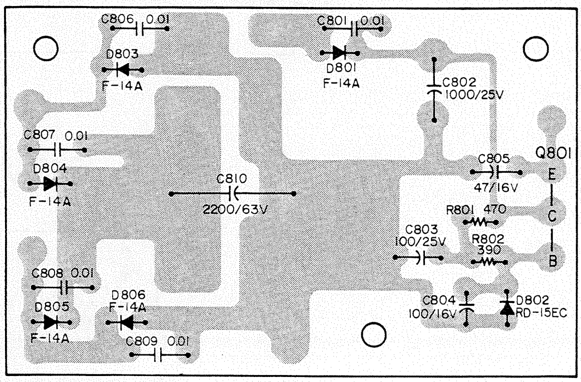
POWER SUPPLY PC BOARD


C806 0.01
C801 0.01
D803
F-14A
D801
F-14A
C802
1000/25V
C807 0.01
D804
F-14A
C810
2200/63V
C805
47/16V
Q801
E
C
B
R801 470
C803
100/25V
R802
390
C808 0.01
D805
F-14A
D806
F-14A
C809 0.01
C804
100/16V
D802
RD-15EC

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2-2. PC BOARD(Parts List)

FM MPX PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
	51910900	PC Board Assy	
	51910750	PC Board	
	IC's		
IC201, IC203	51911090	TA-7061AP	
IC202	51911100	HA-1156	
	TRANSISTORS		
Q201	51911030	2SC839	
Q202, Q203	51911040	2SC945	
	DIODES		
D201~D207	51911110	IK-60	
D208	51911120	Varistor, VD-1211	
	RESISTORS		
All resistors are rated ±5% tolerance and 1/4 watt.			
R201, R202	51911660	330 ohm	50572700
R203	51911700	680 ohm	50572780
R204, R205	51911660	330 ohm	50572700
R206	51911700	680 ohm	50572780
R207	51911720	1k ohm	50572820
R208	51911820	8.2k ohm	50573040
R209	51911720	1k ohm	50572820
R210	51911820	8.2k ohm	50573040
R211	51911940	100k ohm	50573300
R212	51911760	2.2k ohm	50572900
R213	51911640	100 ohm	50572580
R214	51911890	33k ohm	50573180
R215	51911720	1k ohm	50572820
R216	51911920	56k ohm	50573240
R217	51911850	15k ohm	50573100
R218	51911830	10k ohm	50573060
R219	51911770	3.3k ohm	50572940
R220	51911840	12k ohm	50573080
R221	51911640	100 ohm	50572580
R222, R223	51911900	39k ohm	50573200
R224	51911710	820 ohm	50572800
R225, R226	51911780	3.9k ohm	50572960
R227	51911730	1.2k ohm	50572840
R228	51911860	18k ohm	50573120
R229	51911720	1k ohm	50572820
R230	51911940	100k ohm	50573300
R231	51911630	82 ohm	50572560
	CAPACITORS		
C201~C204	51911480	Ceramic 0.01 mfd	
C205	51911490	Ceramic 0.02 mfd	
C206	51911500	Ceramic 0.04 mfd	
C207	51911420	Ceramic 22 pfd	
C208	51911430	Ceramic 47 pfd	
C209	51911500	Ceramic 0.04 mfd	
C210	51911480	Ceramic 0.01 mfd	
C211	51911490	Ceramic 0.02 mfd	
C212	51911280	Elec. 47 mfd 16V	50554010
C213, C214	51911480	Ceramic 0.01 mfd	
C215	51911490	Ceramic 0.02 mfd	

REF. NO.	PARTS NO.	DESCRIPTION			FORMER PARTS NO.
C216	51911340	Elec.	330 mfd	16V	50554840
C217, C218	51911460	Ceramic	220 pfd		
C219	51911260	Elec.	4.7 mfd	35V	50555830
C220~C222	51911480	Ceramic	0.01 mfd		
C223, C224	51911490	Ceramic	0.02 mfd		
C225	51911400	Ceramic	10 pfd		
C226, C227	51911480	Ceramic	0.01 mfd		
C228	51911270	Elec.	10 mfd	35V	50554510
C229	51911440	Ceramic	100 pfd		
C230	51911260	Elec.	4.7 mfd	35V	50555830
C231, C232	51911520	Tant.	0.47 mfd	16V	
C233, C234	51911190	Mylar	0.0082 mfd		
C235	51911230	Mylar	0.047 mfd		
C236	51911540	Polyst.	470 pfd		
C237	51911510	Tant.	0.22 mfd		
C238	51911520	Tant.	0.47 mfd	16V	
C239	51911510	Tant.	0.22 mfd		
C240	51911480	Ceramic	0.01 mfd		
	VARIABLE RESISTOR				
VR201	51911550	Semi-fixed, 5k ohm - B			
	COILS				
L201	51910990	Choke	CRF-4D 001		
T201	51910750	Discriminator	CRF-4D 011		
T202	51910760	Discriminator	CRF-4D 012		
T203	51911000	IF	CRF-4D 005		
	MISCELLANEOUS				
E201, E202	51910970	Ceramic Filter	6FS-107M		
E203, E204	51910980	Filter	6FC-04		

AM PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
	51910910	PC Board Assy	
	51910810	PC Board	
	TRANSISTORS		
Q401~Q403	51911030	2SC839	
	DIODES		
D401~D403	51911110	1K-60	
	CARBON RESISTORS **All resistors are rated ±5% tolerance and 1/4 watt.**		
R401	51911870	22k ohm	50573140
R402	51911800	5.6k ohm	50573000
R403	51911790	4.7k ohm	50572980
R404	51911640	100 ohm	50572580
R405	51911660	330 ohm	50572700

REF. NO.	PARTS NO.	DESCRIPTION			FORMER PARTS NO.
R406	51911960	150k ohm			50573340
R407	51911770	3.3k ohm			50572940
R408	51911690	560 ohm			50572760
R409	51911740	1.5k ohm			50572860
R410	51911820	8.2k ohm			50573040
R411	51911920	56k ohm			50573240
R412	51911700	680 ohm			50572780
R413	51911950	120k ohm			50573320
R414	51911740	1.5k ohm			50572860
R415	51911720	1k ohm			50572820
R416	51911820	8.2k ohm			50573040
R417	51911910	47k ohm			50573220
R418	51911830	10k ohm			50573060
R419	51911750	1.8k ohm			50572880
R420	51911760	2.2k ohm			50572900
	CAPACITORS				
C401	51911490	Ceramic	0.02 mfd		
C402	51911200	Mylar	0.01 mfd		
C403	51911410	Ceramic	15 pfd		
C404	51911530	Polyst.	330 pfd		
C405~C410	51911490	Ceramic	0.02 mfd		
C411	51911310	Elec.	100 mfd	16V	50554200
C412	51911490	Ceramic	0.02 mfd		
C413	51911260	Elec.	47 mfd	35V	50555830
C414~C417	51911480	Ceramic	0.01 mfd		
C418	51911250	Elec.	1 mfd	50V	50554540
C419	51911490	Ceramic	0.02 mfd		
C420	51911330	Elec.	220 mfd	10V	50554910
	COILS				
T401	51910820	AM OSC		CRA-4D 004	
T402	51910830	AM IF		CRA-4D 001	
T403	51910840	AM IF		CRA-4D 002	
T404	51910850	AM IF		CRA-4D 003	

INPUT/OUTPUT PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION			FORMER PARTS NO.
	51910930	PC Board Assy			
	51910800	PC Board			
Q501/Q502	51911040	Transistor, 2SC945P			
R501/R502	51911930	Resistor, Carbon	82k ohm	1/4W 5%	50573280
R503/R504	51911850	Resistor, Carbon	15k ohm	1/4W 5%	50583100
R505/R506	51911830	Resistor, Carbon	10k ohm	1/4W 5%	50573060
R507/R508	51911770	Resistor, Carbon	3.3k ohm	1/4W 5%	50572940
R509/R510	51911760	Resistor, Carbon	2.2k ohm	1/4W 5%	50572900
R511/R512	51911880	Resistor, Carbon	27k ohm	1/4W 5%	50573160
R513	51911720	Resistor, Carbon	1k ohm	1/4W 5%	50572820
R515/R516	51911920	Resistor, Carbon	56k ohm	1/4W 5%	50573240
R517/R518	51911950	Resistor, Carbon	120k ohm	1/4W 5%	50573320
R519/R520	51911950	Resistor, Carbon	120k ohm	1/4W 5%	50573320
R521/R522	51911800	Resistor, Carbon	5.6k ohm	1/4W 5%	50573000
R523/R524	51911990	Resistor, Carbon	470k ohm	1/4W 5%	50573460

REF. NO.	PARTS NO.	DESCRIPTION			FORMER PARTS NO.
R525/R526	5191 1950	Resistor, Carbon	120k ohm	1/4W 5%	50573320
R527/R528	5191 1720	Resistor, Carbon	1k ohm	1/4W 5%	50572820
C501/C502	5191 1260	Capacitor, Elec.	4.7 mfd	35V	50555830
C503/C504	5191 1260	Capacitor, Elec.	4.7 mfd	35V	50555830
C505	5191 1270	Capacitor, Elec.	10 mfd	35V	50554510

AUDIO PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
	51910890	PC Board Assy	
	51910860	PC Board	
	TRANSISTORS		
Q601/Q602	51911050	2SC900	
Q603/Q604	51911040	2SC945P	
Q605/Q606	51911040	2SC945P	
Q607/Q608	51911040	2SC945P	
Q609/Q610	51911040	2SC945P	
Q611/Q612	51911070	2SC853	
Q613/Q614	51911070	2SC853	
Q615/Q616	51911060	2SA545	
	DIODES		
D601/D602	51911120	Varistor VD-1121	
D603/D604	51911120	Varistor	
D605/D606	51911120	Varistor	
	CARBON RESISTORS **All resistors are rated ±5% tolerance and 1/4 watt unless otherwise noted.**		
R601/R602	51911930	82k ohm	50573280
R603/R604	51911710	820 ohm	50572800
R605/R606	51911940	100k ohm	50573300
R607/R608	51911720	1k ohm	50572820
R609/R610	51912000	560k ohm	50573480
R611/R612	51911940	100k ohm	50573300
R613/R614	51911850	15k ohm	50573100
R615/R616	51911680	470 ohm	50572740
R617/R618	51911730	1.2k ohm	50572840
R619/R620	51911840	12k ohm	50573080
R621/R622	51911860	22k ohm	50573140
R623/R624	51911980	390k ohm	50573440
R625/R626	51911720	1k ohm	50572820
R627/R628	51911810	6.8k ohm	50573020
R629/R630	51911970	220k ohm	50573380
R631/R632	51911970	220k ohm	50573380
R633/R634	51911850	15k ohm	50573100
R635/R636	51911890	33k ohm	50573180
R637/R638	51911790	4.7k ohm	50572980
R639/R640	51911790	4.7k ohm	50572980
R641/R642	51911830	10k ohm	50573060
R643/R644	51911790	4.7k ohm	50572980
R645/R646	51911960	150k ohm	50573340
R647/R648	51911840	12k ohm	50573080

REF. NO.	PARTS NO.	DESCRIPTION	FORMER PARTS NO.
R649/R650	51911830	10k ohm	50573060
R651/R652	51911720	1k ohm	50572820
R653/R654	51911620	56 ohm	50572520
R655	51911800	5.6k ohm	50573000
R656	51911820	8.2k ohm	50573040
R657/R658	51912010	1M ohm	50573540
R659/R660	51911940	100k ohm	50573300
R661/R662	51911850	15k ohm	50573100
R663/R664	51911770	3.3k ohm	50572940
R665/R666	51911640	100 ohm	50572580
R667/R668	51911760	2.2k ohm	50572900
R669/R670	51911930	82k ohm	50573280
R671/R672	51911580	0.47 ohm 2W	
R673/R674	51911790	4.7k ohm	50572980
R675/R676	51911640	100 ohm	50572580
R677/R678	51911650	150 ohm	50572620
R679/R680	51911650	150 ohm	50572620
R681/R682	51911590	33 ohm 1W	50576460
R683/R684	51911650	150 ohm	50572620
R685/R686	51911910	47k ohm	50573220
R687/R688	51911610	22 ohm	50572420
R689/R690	51911910	47k ohm	50573220
R691/R692	51911910	47k ohm	50573220
	CAPACITORS		
C601/C602	51911250	Elec. 1 mfd 50V	50554540
C603/C604	51911470	Ceramic 470 pfd	
C605/C606	51911270	Elec. 10 mfd 35V	50554510
C607/C608	51911300	Elec. 100 mfd 10V	50554570
C609/C610	51911430	Ceramic 47 pfd	
C611/C612	51911270	Elec. 10 mfd 35V	50554510
C613/C614	51911320	Elec. 100 mfd 25V	50554170
C615/C616	51911180	Mylar 0.0033 mfd	
C617/C618	51911200	Mylar 0.012 mfd	
C619/C620	51911260	Elec. 4.7 mfd 50V	50554080
C621/C622	51911470	Ceramic 470 pfd	
C623/C624	51911270	Elec. 10 mfd 35V	50554510
C625/C626	51911170	Mylar 0.0027 mfd	
C627/C628	51911240	Mylar 0.1 mfd	
C629/C630	51911240	Mylar 0.1 mfd	
C631/C632	51911270	Elec. 10 mfd 35V	50554510
C633/C634	51911450	Ceramic 150 pfd	
C635/C636	51911300	Elec. 100 mfd 10V	50554570
C637/C638	51911270	Elec. 10 mfd 35V	50554510
C639/C640	51911350	Elec. 470 mfd 35V	50554620
C641/C642	51911260	Elec. 4.7 mfd 35V	50555830
C643/C644	51911280	Elec. 47 mfd 25V	50554490
C645/C646	51911470	Ceramic 470 pfd	
C647/C648	51911250	Elec. 1 mfd 50V	50554540
C649/C650	51911280	Elec. 47 mfd 25V	50554490
C651/C652	51911440	Ceramic 100 pfd	
C653/C654	51911440	Ceramic 100 pfd	
C655/C656	51911330	Elec. 200 mfd 10V	50554910
C657/C658	51911370	Elec. 1000 mfd 35V	50554740
C659/C660	51911220	Mylar 0.022 mfd	
	VARIABLE RESISTORS		
VR601/VR602	51911560	Semi-fixed, 10k ohm - B	

PUSH SWITCH PC BOARD

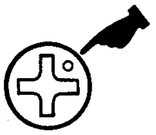
REF. NO.	PARTS NO.	DESCRIPTION			FORMER PARTS NO.
	51910880	PC Board Assy			
	51910780	PC Board			
	51910790	Push Switch, 5-gang			
R701/R702	51911790	Resistor, Carbon	4.7k ohm	1/4W 5%	
C701/C702	51911160	Capacitor, Mylar	0.001 mfd		
C703/C704	51911240	Capacitor, Mylar	0.1 mfd		
C705/C706	51911200	Capacitor, Mylar	0.01 mfd		

POWER SUPPLY PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION			FORMER PARTS NO.
	51910920	PC Board Assy			
	51910870	PC Board			
Q801	51911080	Transistor	2SD261		
D801	51913900	Diode	V06C		
D802	51911140	Diode, Zener	RD-15EC		
D803~D806	51913900	Diode	V06C		
R801	51911680	Resistor	470 ohm	1/4W 5%	
R802	51911670	Resistor	390 ohm	1/4W 5%	
C801	51911480	Capacitor, Ceramic	0.01 mfd		
C802	51911360	Capacitor, Elec.	1000 mfd	25V	
C803	51911360	Capacitor, Elec.	100 mfd	25V	50554170
C804	51911310	Capacitor, Elec.	100 mfd	16V	50554200
C805	51911280	Capacitor, Elec.	47 mfd	16V	50554010
C806~C809	51911480	Capacitor, Ceramic	0.01 mfd		
C810	51931380	Capacitor, Elec.	2200 mfd	63V	

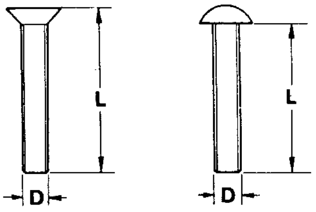
3. ASSEMBLING HARDWARE CODING LIST

All screws conform to ISO standards, and have crossrecessed heads, unless otherwise noted.
ISO screws have the head inscribed with a point as in the figure to the right.

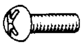
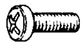
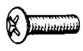
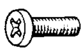
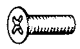
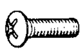
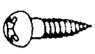
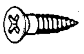
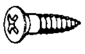
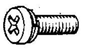
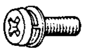
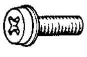
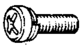
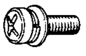


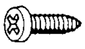
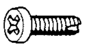
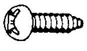
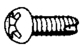
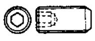
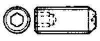
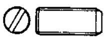
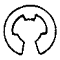
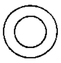
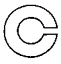
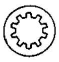
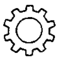
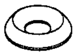
FOR EXAMPLE:

B M 3 x 6
Length in mm (L)
Diameter in mm (D) *
Metric System
Nomenclature



* Inner dia. for washers and nuts

	Code	Name	Type
MACHINE SCREW	**R**	Round Head Screw	
	P	Pan Head Screw	
	T	Stove Head Screw (Truss)	
	B	Binding Head Screw	
	F	Flat Countersunk Head Screw	
	O	Oval Countersunk Head Screw	
WOOD SCREW	**RW**	Round Head Wood Screw	
	FW	Flat Countersunk Wood Screw	
	OW	Oval Countersunk Wood Screw	
SEMS SCREW	**BSA**	Binding Head SEMS Screw(A Type)	
	BSB	Binding Head SEMS Screw(B Type)	
	BSF	Binding Head SEMS Screw(F Type)	
	PSA	Pan Head SEMS Screw(A Type)	
	PSB	Pan Head SEMS Screw(B Type)	

	Code	Name	Type
TAPPING SCREW	**BTA**	Binding Head Tapping Screw(A Type)	
	BTB	Binding Head Tapping Screw(B Type)	
	RTA	Round Head Tapping Screw(A Type)	
	RTB	Round Head Tapping Screw(B Type)	
SETSCREW	**SF**	Hex Socket Setscrew(Flat Point)	
	SC	Hex Socket Setscrew(Cup Point)	
	SS	Slotted Socket Setscrew(Flat Point)	
WASHER	**E**	E-Ring (Retaining Washer)	
	W	Flat Washer (Plain)	
	SW	Lock Washer (Spring)	
	LWI	Lock Washer (Internal Teeth)	
	LWE	Lock Washer (External Teeth)	
	TW	Trim Washer (Countersunk)	
NUT	**N**	Hex Nut